

GENERAL STUDIES CIVIL SERVICES - 2003

1. In December 2002, the Prime Minister of India signed "Delhi Declaration" with the
 - 1) President of Indonesia
 - 2) President of Russia
 - 3) Prime Minister of Cambodia
 - 4) Prime Minister of Laos
2. Among the following cities, which one is nearest to the Tropic of Cancer?
 - 1) Delhi
 - 2) Kolkata
 - 3) Jodhpur
 - 4) Nagpur
3. 'Mrichhakatika' an ancient Indian book written by Shudraka deals with
 - 1) the love affair of a rich merchant with the daughter of a courtesan
 - 2) the victory of Chandragupta II over the Shaka Kshatrapas of western India.
 - 3) the military expeditions and exploits of Samudragupta
 - 4) the love affair between a Gupta King and a princess of Kamarupa
4. Consider the following statements :
 - 1) Vardhamana Mahavira's mother was the daughter of Lichchhavi chief Chetaka
 - 2) Gautama Buddha's mother was a princess from the Koshala dynasty
 - 3) Prashvanatha, the twenty-third Tirthankara, belonged to Banaras
 Which of the Statements is / are correct?
 - 1) Only 1
 - 2) Only 2
 - 3) 2 and 3
 - 4) 1,2, and 3
5. A car travels the first one-third of a certain distance with a speed of 10 km/hr. the next one-third distance with a speed of 20 km/hr and the last one third distance with a speed of 60 km/hr. The average speed of the car for the whole journey is
 - 1) 18 km/hr
 - 2) 24 km/hr
 - 3) 30 km/hr
 - 4) 36 km/hr
6. Consider the following statements :

The purpose of adding sodium sulphate and sodium silicate to the detergent in a washing powder is

 - 1) to keep the washing powder dry
 - 2) to maintain the alkalinity of the powder.
 Which of these statements is /are correct
 - 1) Only 1
 - 2) Only 2
 - 3) Both 1 and 2
 - 4) Neither 1 nor 2
7. Debenture holders of a company are its
 - 1) Shareholders
 - 2) Creditors
 - 3) Debtors
 - 4) Directors
8. Which one of the following statements is NOT correct?
 - 1) The National Song Vande Mataram was composed by Bankimchandra Chatterjee originally in Bengali
 - 2) The national Calendar of India based on Sakaera has its Ist Chaitra on 22nd March normally and 21st March in a leap year.
 - 3) The design of the National Flag of India was adopted by the Constituent Assembly on 22nd July, 1947.
 - 4) The sohng 'Jana-gana-mana' composed originally in Bengali by Rabijndranath Tagore was adopted in its Hindi version by the Constituent Assembly on 24 th January, 1950.as the National Anthem India.
9. Which one of the following Articles of the Indian Constitution provides that 'It shall be the duty of the Union to protect every State against external aggression and internal disturbance'?
 - 1) Article 215
 - 2) Article 275
 - 3) Article 325
 - 4) Article 355
10. 'A' walks around a circular field at the rate of the one round per hour while 'B' runs around it at the rate of six rounds per hour. They start in the same direction from the same point at 7.30 am. They shall first cross each other at
 - 1) 8.30 a.m.
 - 2) 8.10 a.m.
 - 3) 7.48 a.m.
 - 4) 7.42 a.m.
11. Consider the following statements : In India, stamp duties on financial transactions are
 - 1) levied and collected by the State Government
 - 2) appropriated by the Union Government
 Which of these statements is/are correct?
 - 1) Only 1
 - 2) Only 2
 - 3) Both 1 and 2
 - 4) Neither 1 nor 2
12. Which one of the following statements is correct ?
 - 1) East Timor was a British colony for four centuries
 - 2) The European colonial rulers handed over East Timor to Indonesia in 1975.
 - 3) The United Nations took over East Timor in 1999 to prepare it for independence.
 - 4) East Timor finally declared its independence in December 2001.
13. Match list-I (Item in the Indian constitution) with List II (Country from which it was derived) and select the correct answer using the codes given below the lists :

	List I (Item in the Indian Constitution)	List II (Country from which it was derived)
A.	Directive Principles of State Policy	1. Australia
B.	Fundamental Rights	2. Canada
C.	Concurrent List in Union-State Relations	3. Ireland
D.	India as a Union of States with greater Powers to the Union	4. United Kingdom
	Codes	5. United States of America
	A	B
	1.	5
	2.	41
	3.	52
	4.	42
	3	51
	2	2
14. With reference to Indian defence, which one of the following statements is NOT correct?
 - 1) With the induction of Prirhvi-II, the IAF is the only air force in the world with surface-to-surface

- ballistic missiles under its command
 2) Sukhoi-30 MKI jet fighters can launch air to air and air-to-surface precision missiles
 3) Trishul is a supersonic surface-to-air missile with a range of 30 km.
 4) The indigenously buiolt INS Prabal can launch surface-to-surface missiles

15. The Indira Gandhi Peace Prize, 2002 was awarded to

- 1) John Hume 2) Nelson Mandela
 3) Norodom Sihanouk 4) Sadako Ogata

16. Match List-I (Name of the person) with List-II (Associated with) and select the correct answer using the codes given below the lists:

	List I	List II		
(Name of the Person)		(Associated with)		
A) Brijmohan Lal Munjal		1) Biotechnology		
B) Kiran Karnik		2) Automobile Industry		
C) Kiran Mazumdar Shaw		3) Software Industry		
D) Sunil Mittal		4) Telecom Industry		
		5) Film Industry		
Codes	A	B	C	D
	1.	4	15	2
	2.	4	31	2
	3.	2	31	4
	4.	2	15	4

17. Whom did Mahesh Bhupati and Max Mirnybeat in the US Open men's doubles tennis championship in the year 2002 to win the title?

- 1) Wayne Black and Kevin Ullyett
 2) Mike Bryan and Bob Bryan
 3) Jones Bjorkman and Todd Woodbridge
 4) Jiri Novak and Radek Stepanek

18. Four different candles, which can last for 5 hours, 4 hours, 3 hours and 2 hours of burning respectively, are lit in a room at the same instant and allowed to burn till such time that the three candles in the room get extinguished. The cost of burning each one of these candles is 75 paise per hour. The cost involved is :

- 1) Rs. 2.75 2) Rs.3.75 3) Rs. 9.75 4) Rs. 12.50

19. Which one of the following statements is correct with reference to FEMA in India?

- 1) The Foreign Exchange Regulation Act(FERA) was replaced by Foreign Exchange Management Act (FEMA) in the year-2001
 2) FERA was given a sunset clause of one year till 31st May, 2002 to enable Enforcement Directorate to complete the investigation of pending issues
 3) Under FEMA, violation of foreign exchange rules has ceased to be a criminal offence
 4) As per the new dispensation, Enforcement Directorate can arrest and prosecute the people for the violation of Foreign exchange rules.

20. Consider the following statements :

- 1) India's import of crude and petroleum products during the year 2001-02, accounted for about 27% of India's total imports.
 2) During the year 2001-02, India's exports had increased by 10% as compared to the previous year.

Which of these statements is/are correct?

- 1) Only 1 2) Only 2
 3) Both 1 and 2 4) Neither 1 nor 2

21. Who among the following was selected for the 2001 Dada Saheb Phalke Award?

- 1) Dev Anand 2) Lata Mangeshkar
 3) Ramanand Sagar 4) Yash Chopra

22. Which one of the following statement is NOT correct ?

- 1) Milk contains none of the B-vitamins
 2) Vitami n-A (retinol) deficiency leads to dry and scaly skin.
 3) One of the symptoms of scurvy is pain in the joints
 4) Vitamin B1 (thiamine) deficiency can lead to heart failure

23. As per the Human Development Index given by UNDP, which one of the following sequences of South Asian countries is correct, in the order of higher to lower development?

- 1) India-Sri Lanka-Pakistan-Maldives
 2) Maldives-Sri Lanka-India- Pakistan
 3) Sri Lanka- Maldives-India-Pakistan
 4) Maldives-India-Pakistan-Sri Lanka

24. Which one of the following statements is NOT correct?

- 1) The velocity of sound in air increases with the increase of temperature
 2) The velocity of sound in air is independent of pressure
 3) The velocity of sound in air decreases as the humidity increases
 4) The velocity of sound in air is not affected by the change in amplitude and frequency

25. Consider the following statements :

- 1) India ranks first in the world in fruit production
 2) India ranks second in the world in the export of tobacco.

Which of these statements is/are correct?

- 1) Only 1 2) Only 2
 3) Both 1 and 2 4) Neither 1 nor 2

26. Which one of the following statements is correct?

- 1) Alliance Air is a wholly-owned subsidiary of Indian Airlines
 2) The Airports Authority of India manages seven of the country's international airports.
 3) The Airports Authority of India is the regulatory organisation for enforcing civil air regulations in India
 4) It is the function of Directorate General of Civil Aviation to plan and construct runways and terminal buildings to provide air safety services.

27. Which of the following Bills must be passed by each House of the Indian Parliament separately, by special majority?

- 1) Ordinary Bill 2) Money Bill
 3) Finance Bill
 4) Constitution Amendment Bill

28. Consider the following animals of India :

- 1) Crocodile 2) Elephant
 Which of these is /are endangered species?
 1) Only 1 2) Only 2

- 3) Both 1 and 2 4) Neither 1 nor 2
- 29. Which one among the following covers the highest percentage of forest area in the world?**
 1) Temperate Coniferous forests
 2) Temperate Deciduous forests
 3) Tropical Monsoon forests
 4) Tropical rain forests
- 30. A two member committee comprising of one male and one female member is to be constituted out of five males and three females. Amongst the females, Ms. A refuses to be a member of the committee in which Mr. B is taken as the member. In how many different ways can the committee be constituted?**
 1) 11 2) 12 3) 13 4) 14
- 31. Consider the following statements :**
 1) The last Mauryan ruler, Brihadratha was assassinated by his commander-in-chief, Pushya mitra Sunga
 2) The last Sunga King, Devabhuti was assassinated by his Brahmana minister Vasudeva Kanva who usurped to throne.
 3) The last ruler of the Kanva dynasty was deposed by the Andhras
 Which of these statements is/are correct?
 1) 1 and 2 2) Only 2 3) Only 3 4) 1,2, and 3
- 32. The aim of education as started by the Wood's dispatch of 1854 was**
 1) the creation of employment opportunities for native Indians
 2) the spread of western culture in India
 3) the promotion of literacy among the people using English medium of language.
 4) the introduction of scientific research and rationalism in the traditional Indian education
- 33. Who won the title in the finals of French Open men's singles tennis championship in the year 2002?**
 1) Albert Costa 2) Juan Carlos Ferrero
 3) Andre Agassi 4) Pete Sampras
- 34. Consider the following statements :**
The function(s) of the Finance Commission is /are
 1) to allow the withdrawal of money out of the Consolidated Fund of India.
 2) to allocate between the States the shares of proceeds of taxes.
 3) to consider applications for grants-in-aid from states.
 4) to supervise and report on whether the Union and State governments is/are correct?
 1) Only 1 2) 2 and 3 3) 3 and 4 4) 2 and 4
- 35. Which one among the following States has the highest female literacy rate as per the Census 2001?**
 1) Chattisgarh 2) Madhya Pradesh
 3) Orissa 4) Rajasthan
- 36. Which one among the following countries has the lowest GDP per capita?**
 1) China 2) India
 3) Indonesia 4) Sri Lanka
- 37. Consider the following statements :**
 1) In Macedonia, ethnic Albanians are a minority
 2) In Kosovo, Serbians are a majority
 Which of these statements is/are correct?
 1) Only 1 2) Only 2
 3) Both 1 and 2 4) Neither 1 nor 2
- 38. Israel has common borders with**
 1) Lebanon, Syria, Jordan, and Egypt
 2) Lebanon, Syria, Turkey and Jordan
 3) Cyprus, Turkey, Jordan and Egypt
 4) Turkey, Syria, Iraq and Yemen
- 39. What is the correct sequence of the rivers Godavari, Mahanadi, Narmada and Tapi in descending order of their lengths?**
 1) Godavari-Mahanadi-Narmada-Tapi
 2) Godavari-Narmada-Mahanadi-Tapi
 3) Narmada-Godavari-Tapi-Mahanadi
 4) Narmada-Tapi-Godavari-Mahanadi
- 40. If the radius of the earth were to shrink by one percent, its mass remaining the same, the value of 'g' on the earth's surface would**
 1) increase by 0.5% 2) increase by 2%
 3) decrease by 0.5% 3) decrease by 2%
- 41. With reference to the entry of European powers into India, which one of the following statements is NOT correct?**
 1) The Portuguese captured Goa in 1499
 2) The English opened their first factory in South India at Masulipatam
 3) In Eastern India, English Company opened its first factory in Orissa in 1633
 4) Under the leadership of Dupleix, the French occupied Madras in 1746
- 42. With reference to Indian freedom struggle, which one of the following statements is NOT correct?**
 1) The Rowlatt Act aroused a wave of popular indignation and led to the Jallianwala Bagh massacre
 2) Subhas Chandra Bose formed the Forward Bloc
 3) Bhagat Singh was one of the founders of Hindustan Republican Socialist Association.
 4) In 1931, the Congress Session at Karachi opposed Gandhi-Irwin Pact.
- 43. Consider the following statements:**
 1) In the last five years, Indian software exports have increased at a compound annual growth rate of about 60%
 2) The Software and services industry in India registered an overall growth of about 28% in rupee terms during the year 2001-2002
 Which of these Statements is/are correct ?
 1) Only 1 2) Only 2
 3) Both 1 and 2 4) Neither 1 nor 2
- 44. Which one of the following statements is NOT correct?**
 1) India is the second largest producer of nitrogenous fertilizers in the world.
 2) India is the ninth largest steel producing country in the world.
 3) India is the second largest producer of silk in the world.

- 4) India ranks third in the world in coal production.
- 45. Which one of the following statements is correct?**
- 1) Only the Rajya Sabha and not the Lok Sabha can have nominated members
 - 2) There is a constitutional provision for nominating two members belonging to the Anglo- Indian community to the Rajya Sabha.
 - 3) There is no constitutional bar for a nominated member to be appointed as a Union minister
 - 4) A nominated member can vote both in the Presidential and Vice Presidential elections

- 46. With reference to Government of India's decisions regarding Foreign Direct Investment (FDI) during the year 2001-02, consider the following statements :**

- 1) Out of the 100% FDI allowed by India in tea sector, the foreign firm would have to disinvest 33% of the equity in favour of an Indian partner within four years.
- 2) Regarding the FDI in print media in India, the single largest Indian shareholder should have a holding higher than 26%

Which of these statements is/are correct?

- 1) Only 1
- 2) Only 2
- 3) Both 1 and 2
- 4) Neither 1 nor 2

- 47. Alam Khan one of these who invited Babur to invade India was**

- 1) an uncle of Ibrahim Lodi and a pretender to the throne of Delhi
- 2) a cousin of Ibrahim Lodi who was ill-treated and expelled from the country
- 3) the father of Dilawar Khan to whom cruel treatment was meted out by Ibrahim Lodi
- 4) a high official in Punjab province who was very much discontented with Ibrahim Lodi's treatment to his tribe.

- 48. The battle of Dharmat was fought between**

- 1) Muhammad Ghori and Jai Chand
- 2) Babur and the Afghans
- 3) Aurangzeb and Dara Shikoh
- 4) Ahmad Shah Durrani and the Marathas

- 49. Which one among the following has the largest shipyard in India?**

- 1) Kolkata
- 2) Kochi
- 3) Mumbai
- 4) Visakhapatnam

- 50. Three flags, each of different colour, are available for a military exercise. Using these flags, different codes can be generated by waving**

- A) Single flag of different colours, or
- B) any two flags in a different sequence of colours, or
- C) three flags in a different sequence of colours.

The maximum number of codes that can be generated is

- 1) 6
- 2) 9
- 3) 15
- 4) 18

- 51. Match List-I (Organisation) with List-II (Location) and select the correct answer using the codes given below the lists :**

List I	List II
(Organisation)	(Location)

- | | |
|-----------------------------|-------------|
| A) National Sugar Institute | 1) Dehradun |
|-----------------------------|-------------|

- B) Mishra Dhatu Nigam

Limited

- 2) Kamptee

- C) Institute of Military Law

- 3) Pune

- D) Institute of National

Integration

- 4) Hyderabad

- 5) Knapur

Codes	A	B	C	D
1.		3	14	2
2.		5	14	3
3.		3	45	2
4.		5	42	3

- 52. Tim Montgomery set a new world record at the IAAF Grand Prix final in the year 2002 in**

- 1) Long Jump
- 2) 110 Hurdle Race
- 3) 100 m Dash
- 4) High Jump

- 53. With reference to the work of human kidney, consider the following statements :**

- 1) After the waste is removed in the kidney, the cleaner blood is sent back through renal artery.

- 2) From Bowman's capsule, the filtered liquid passes through tiny tubes where much of the glucose is reabsorbed and sent back to the blood in the renal vein

Which of the statements is/are correct?

- 1) Only 1
- 2) Only 2
- 3) Both 1 and 2
- 4) Neither 1 nor 2

- 54. A hydrogen-inflated polythene ballon is releaser from the surface of the earth. As the balloon rises to an altitude up in the atmosphere, it will**

- 1) decrease in size
- 2) flatten into disc-like shape
- 3) increase in size
- 4) Maintain the same size and shape

- 55. The power to enlarge the jurisdiction of the Supreme Court of India with respect to any matter included in the Union List of Legislative Powers rests with**

- 1) The President of India
- 2) The Chief Justice of India
- 3) The Parliament
- 4) The Union Ministry of Law, Justice and Company Affairs

- 56. Which one of the following High Courts has the Territorial Jurisdiction over Andaman and Nicobar Islands?**

- 1) Andhra Pradesh
- 2) Calcutta
- 3) Madras
- 4) Orissa

- 57. Under which Article of the Indian Constitution did the President make a reference to the Supreme Court to seek the Court's opinion on the Constitutional validity of the Election Commission's decision on deferring the Gujarat Assembly Elections (inthe year 2002)?**

- 1) Article 142
- 2) Article 143
- 3) Article 144
- 4) Article 145

- 58. Consider the following statements :**

- 1) India launched its first full-fledged meterological satellite (METSAT) in September, 2002

- 2) For the first time, the space vehicle PSLV-C4 carried a payload of more than 1000 kg into a

geosynchronous orbit.

Which of these statements is/are correct?

- 1) Only 1 2) Only 2
3) Both 1 and 2 4) Neither 1 nor 2

59. Nanda Devi peak forms a part of

- 1) Assam Himalayas 2) Kumaon Himalayas
3) Nepal Himalayas 4) Punjab Himalayas

60. Consider the following statements

- 1) India is the original home of the cotton plant
2) India is the first country in the world to develop hybrid cotton variety leading to increased production.

Which of these statements is/are correct

- 1) Only 1 2) Only 2
3) Both 1 and 2 4) Neither 1 nor 2

61. Who is the author of the book 'New Dimensions of India's Foreign Policy'?

- 1) A.B. Vajpayee 2) Jaswant Singh
3) Both 1 and 2 4) Neither 1 and 2

62. How did the Mughal Emperor Jahandarsha's reign come to an early end?

- 1) He was deposed by his Wazir
2) He died due to a slip while climbing down steps
3) He was defeated by his nephew in a battle
4) He died of sickness due to too much consumption of wine.

63. In India, among the following locations, the Dutch established their earliest factory at

- 1) Surat 2) Pulicat
3) Cochin 4) Cassimbazar

64. Consider the following statements :

- 1) While members of the Raja Sabha are associated with Committees on Public Accounts and Public Undertakings members of Committee on Estimates are drawn entirely from Lok Sabha.

2) The Ministry of Parliamentary Affairs works under the overall direction of Cabinet Committee on parliamentary Affairs.

3) The Minister of Parliamentary Affairs nominates Members of Parliament on Committees, Councils, Boards and Commissions etc. setup by the Government of India in the various ministries

Which of these statements are correct?

- 1) 1 and 2 2) 2 and 3 3) 1 and 3 4) 1,2 and 3

65. The Genetic Engineering Approval Committee, whose permission is required for cultivation of any genetically modified crop such as Bt-Cotton in India, is under the Union Ministry of

- 1) Agriculture
2) Environment and Forests
2) Commerce and industry
4) Rural Development

66. As per Indian Protocol, who among the following ranks highest in the order of precedence?

- 1) Deputy Prime Minister
2) Former President
3) Governor of a State within his State
4) Speaker of Lok Sabha

67. Among the following cities, which one is at the highest altitude above mean sea level?

- 1) Bangalore 2) Delhi

- 3) Jodhpur 4) Nagpur

68. Consider the following statements ;

1) Steam at 100°C and boiling water at 100°C contain same amount of heat.

2) Latent heat of fusion of ice is equal to the latent heat of vaporization of water

3) In an air-conditioner, heat is extracted from the room-air at the evaporator coils and is rejected out at the condenser coils.

What of these statements is /are correct?

- 1) 1 and 2 2) 2 and 3
3) 1 and 3 4) Only 3

69. Consider the following Statements :

1) Molasses is a by-product of sugar productions process

2) bagasse obtained in the sugar mills is used as a fuel in the boilers to generate steam for the sugar factories

3) Sugar can only be produced from sugarcane the raw material

Which of these statements are correct?

- 1) 1 and 2 2) 2 and 3 3) 1 and 3 4) 1,2, and 3

70. Consider the following statements :

1) Longitude of Jabalpur's location is between those of Indore and Bhopal

2) Latitude of Aurangabad's location is between those of Vadodara and Pune.

3) Bangalore is situated more southward than Chennai

Which of these Statements is / are correct ?

- 1) 1 and 3 2) Only 2 3) 2 and 3 4) 1,2 and 3

71. Which one among the following States is smallest in area?

- 1) Andhra Pradesh 2) Gujarat
3) Karnataka 4) Tamil Nadu

72. Consider the following statements : A4 wheel vehicle moving in a sharp circular path at high speed will

- 1) overturn about its outer wheels
2) over turn about its inner wheels
3) skid outwards 4) skid inwards

Which of these statements are correct?

- 1) 1 and 3 2) 2 and 4 3) 2 and 3 4) 1 and 4

73. The Basque people who are frequently in the news for their separatist activity live in

- 1) France 2) Italy 3) Portugal 4) Spain

74. Match List-I (High Officials) with List-II (Organization and select, the correct answer using the codes given below the lists :

	List I		List II	
	A) C.P. Jain		1. Indian Airlines	
	B) S. Ramadoria		2. NTPC	
	C) Sunil Arora		3. TCS	
	D) Vivek Paul		4. Wipro Technologies	
Codes	A	B	C	D
	1.	4	13	2
	2.	4	31	2
	3.	2	31	4
	4.	2	13	4

75. Which one of the following statements is correct?

1) Liquid Sodium is employed as a coolant in nuclear reactors

- 2) Calcium carbonate is an ingredient of tooth paste
 3) Bordeaux mixture consists of Sodium sulphate and lime
 4) Zinc amalgams are used as a dental filling.
- 76. Consider the following statements :**
 1) The Cholas defeated Pandya and Chera rulers and established their domination over peninsular India in the early medieval times
 2) The Cholas sent an expedition against Sailendra empire of South East Asia and conquered some of the areas.
 Which of these statements is/are correct?
 1) Only 1 2) Only 2
 3) Both 1 and 2 4) Neither 1 and 2
- 77. Diffusion of light in the atmosphere takes place due to**
 1) Carbon Dioxide 2) Dust Particles
 3) Helium 4) Water Vapours
- 78. In India, the first bank of limited liability managed by Indians and founded in 1881 was**
 1) Hindustan Commercial Bank
 2) Oudh Commercial Bank
 3) Punjab National Bank 4) Punjab and Sind Bank
- 79. Which one of the following statements is NOT correct?**
 1) The Press Council of India is an autonomous quasi-judicial body established under an Act of Parliament
 2) The Press Information Bureau provides accreditation to media persons so as to have easy access to information from government sources
 3) Among all the States of India, Maharashtra Publishers the largest number of news papers
 4) Press Trust of India is the largest news agency in the country
- 80. The Government holding in BPCL is**
 1) more than 80% 2) between 60% and 70%
 3) between 50% and 60%
 4) less than 50%
- 81. Consider the following statements regarding the relations between India and Pakistan**
 1) During Shimla Agreement, Indira Gandhi and Zulfikar Bhutto agreed to maintain the sanctity of LOC
 2) Lahore Summit took place in the year 1997
 3) Islamabad Summit was held between Rajiv Gandhi and Nawaj Sharif
 Which of these Statements is /are correct
 1) 1,2 and 3 2) 1 and 3 3) Only 2 4) Only 1
- 82. During the Year 2000-01, which one of the following industries recorded highest growth rate in India?**
 1) Cement 2) Coal 3) Electricity 4) Steel
- 83. An oil tanker is partially filled with oil and moves forward on a level road with uniform acceleration. The free surface of oil then**
 1) remains horizontal
 2) is inclined to the horizontal with smaller depth at the rear end
 3) is inclined to the horizontal with larger depth at the rear end
 4) assumes parabolic curve
- 84. In which one of the following countries is Rupee its currency?**
 1) Bhutan 2) Malaysia
 3) Maldives 4) Seychelles
- 85. Which one of the following countries is land locked?**
 1) Bolivia 2) Peru 3) Surinam 4) Uruguay
- 86. Which one of the following countries does NOT border the Caspian Sea?**
 1) Armenia 2) Azerbaijan 3) Kazakhstan 4) Turkmenistan
- 87. The sportsperson Soma Biswas is associated with**
 1) Sailing 2) Hockey 3) Golf 4) Athletics
- 88. Which one of the following is produced during the formation of photochemical smog?**
 1) Hydrocarbons 2) Nitrogen Oxides
 3) Ozone 4) Athletics
- 89. Consider the following statements :**
 1) Kitab-i-Nauras, a collection of songs in praise of Hindu deities and Muslim saints, was written by Ibrahim Adil Shah II.
 2) Amir Khusrau was the originator in India of the early form of the musical style known as Qawali,
 Which of these statements is/are correct
 1) Only 1 2) Only 2 3) Both 1 and 2 4) Neither 1 nor 2
- 90. Three bells toll at intervals of 9,12 and 15 minutes respectively. All the three begin to toll at 8 A.M. At what time will they first toll together again?**
 1) 8.45 a.m. 2) 10.30 a.m. 3) 11.00 a.m.
 4) 1.30 p.m.
- 91. Match List-I (Distinguished Lady) with List II (Organisation/ Industry) and select the correct answer using the codes given below the lists :**
- | | List-I | | List-II | |
|-------|-----------------------|---|--|---|
| | A) Amrita Patel | | 1. National Diary Development Board | |
| | B) Anu Aga | | 2) Park Hotels | |
| | C) Mallika Srinivasan | | 3) Pfizer Limited | |
| | D) Priya paul | | 4) Thermax Limited | |
| | | | 5) Tractors and Farm Equipment Limited | |
| Codes | A | B | C | D |
| | 1. | 1 | 45 | 2 |
| | 2. | 2 | 41 | 5 |
| | 3. | 1 | 35 | 2 |
| | 4. | 2 | 31 | 5 |
- 92. Consider the following statements :**
In the electoral college for Presidential Election in India,
 1) the value of the vote of an elected Member of Legislative Assembly equals
 2) The value of the vote of an elected Member of Parliament equals
 3) There were more than 5,000 members in the latest election
 Which of these statements is / are correct?
 1) 1 and 2 2) Only 2 3) 1 and 3 4) Only 3
- 93. Which of the following statements is NOT correct?**

- 1) Ali Mardan Khan introduced the system of revenue farming in Bengal
 2) Maharaja Ranjit Singh set up modern foundries to manufacture cannons at Lahore.
 3) Sawai Jai Singh of Amber had Euclid's Elements of Geometry translated into Sanskrit
 4) Sultan Tipu of Mysore gave money for the construction of the idol of Goddess Sarda in the Shringeri temple.
- 94. Which of the following Constitutional Amendments are related to raising the number of members of Lok Sabha to be elected from the States**
 1) 6th and 22nd 2) 13th and 38th
 3) 7th and 31st 4) 11th and 42nd
- 95. How did Sultan Qutab-ud-din Aibak die?**
 1) He was treacherously stabbed to death by one of his ambitious nobles
 2) He was killed in a battle with Taj-ud-din Yildiz, the ruler of Ghazni who entered into a contest with him over the capture of Punjab
 3) He sustained injuries while besieging the fortress of Kalinjar in Bundelkhand and succumbed to them later
 4) He died after a fall from his horse while playing Chaugan
- 96. Among the following which planet takes maximum time for one revolution around the Sun?**
 1) Earth 2) Jupiter 3) Mars 4) Venus
- 97. Which one among the following languages has largest number of speakers in the world?**
 1) Bengali 2) French
 3) Japanese 4) Portuguese
- 98. Which one of the following provisions was NOT made in the Charter Act of 1833?**
 1) The trading activities of the East India Company were to be abolished.
 2) The designation of the supreme authority was to be changed as the Governor-General of India in Council
 3) All Law-making powers to be conferred on Governor-General in Council
 4) An Indian was to be appointed as a law Member in the Governor-General's Council.
- 99. With reference to normal human beings, consider the following statements :**
 1) In response to the presence of HCI, secretin is produced from the duodenum
 2) Enterogastrone is produced in the small intestine in response to the presence of fatty acids
 Which of these statements is/ are correct?
 1) Only 1 2) Only 2 3) Both 1 and 2 4) Neither 1 nor 2
- 100. Survey of India is under the Ministry of**
 1) Defence
 2) Environment and Forests
 3) Home Affairs 4) Science and Technology
- 101. Which among the following countries was the earliest to give women the right to vote?**
 1) Iceland 2) India 3) New Zealand 4) U.S.A
- 102. Total time taken by a person in going to a place by walking and returning on cycle is 5 hours 45 minutes. He would have gained 2 hours by cycling both ways. The time taken by him to walk both ways is**
 1) 6 hours 45 minutes 2) 7 hours 45 minutes
 3) 8 hours 15 minutes 4) 8 hours 30 minutes
- 103. Sandeep Pandey, the winner of Raman Magsaysay Award, is mainly an activist in**
 1) Prevention of child marriages
 2) Promotion of communal harmony
 3) environmental protection
 4) education and livelihood projects for Dalits
- 104. What was the main reason for a great civil strife in Argentina recently?**
 1) Ethnic conflict between the native Red Indian tribes and others.
 2) Economic crisis due to huge public debt
 3) The issue of using native languages as medium of instruction in schools
 4) Clashes between government troops and secessionist groups
- 105. With reference to colonial rule in India, what was sought by the Ilbert Bill in 1883?**
 1) To bring Indians and Europeans on par as far as the criminal jurisdiction of courts was concerned
 2) To impose severe restrictions on the freedom of the native press as it was perceived to be hostile to colonial rulers
 3) To encourage the native Indians to appear for civil service examinations by conducting them in India.
 4) To allow native Indians to possess arms by amending the Arms Act.
- 106. An important aspect of the Cripps Mission of 1942 was**
 1) that all Indian States should join the Indian Union as a condition to consider any degree of autonomy for India.
 2) the creation of an Indian Union with Dominion status very soon after the Second World War.
 3) the active participation and cooperation of the Indian people, communities and political parties in the British war effort as a condition for granting independence with full sovereign status to India after war
 4) the framing of a constitution for the entire Indian Union, with no separate constitution for any province, and a Union Constitution to be accepted by all provinces
- 107. When Congress leaders condemned the Montagu-Chelmsford Report, many moderates left the party to form the**
 1) Swarajya Party 2) Indian Freedom Party
 3) Independence Federation of India
 4) India Liberal Federation
- 108. In the FIFA World Cup Football event in the year 2002, the number of the goals scored by Ronaldo of Brazil was**

- 1) 6 2) 7 3) 8 4) 9
- 109. Which one of the following schedules of the Indian Constitution lists the names of states and specifies their territories?**
1) First 2) Second 3) Third 4) Fourth
- 110. In the year 2002, the President of India presented the national award for excellence in public administration and management sciences to**
1) Kumarmanglam Birla 2) N.R.Narayana Murthy
3) Rahul Bajaj 4) Ratan Tata
- 111. 'A' and 'B' are two fixed points in a field. A cyclist 'C' moves such that $\angle ACB$ is always at right angle. In this context, which one of the following statements is correct?**
1) The path followed by the cyclist is an ellipse
2) The path followed by the cyclist is a circle
3) The path followed by the cyclist is an exponential curve
4) This type of motion is not possible
- 112. The thermal power plant of Bokaro is located in**
1) Bihar 2) Chhattisgarh
3) Jharkhand 4) Orissa
- 113. Among the following commodities imported by India during the year 2000-01, which one was the highest in terms of Rupee Value?**
1) Edible Oil 2) Fertilizers
3) Organic and Inorganic Chemicals
4) Pearls, precious and semi precious stones
- 114. With reference to ionic compounds, consider the following statements:**
1) Ionic compounds are insoluble in alcohol
2) Ionic compounds in the solid state are good conductors of electricity
Which of these statements is/are correct?
1) Only 1 2) Only 2
3) Both 1 and 2 4) Neither 1 nor 2
- 115. Which one of the following statements is NOT correct?**
1) The presence of NaCl increases the rate of setting of Plaster of Paris.
2) Gypsum is added to the cement to slow down its rate of setting
3) all alkaline earth metals form hydrated salts
4) barium and Strontium are found free in nature
- 116. With reference to India, which one of the following statements is NOT correct?**
1) IPCL is India's largest petrochemical company
2) RIL is the largest private sector company in India.
3) MTNL is listed on NYSE
4) BSNL is the first telecom service organization in India to launch a nation wide cellular service at one time.
- 117. Which amongst the following States has the highest population density as per Census-2001?**
1) Kerala 2) Madhya Pradesh
3) Uttar Pradesh 4) West Bengal
- 118. The Ninth Schedule to the Indian constitution was added by**
1) First Amendment 2) Eighth Amendment
3) Ninth Amendment 4) 42nd Amendment
- 119. Who headed the Interim Cabinet formed in the year 1946 ?**
1) Rajendra Prasad 2) Jawaharlal Nehru
3) Sardar Vallabhbhai Patel
4) Rajagopalachari
- 120. The waterfall 'Victoria' is associated with the river**
1) Amazon 2) Missouri
3) St. Lawrence 4) Zambezi
- 121. The leader of the Bardoli Satyagraha (1928) was**
1) Sardar Vallabhbhai Patel
2) Mahatma Gandhi
3) Vithalbhai J. Patel 4) Mahadev Desai
- 122. The Kellar proposals which were in the news recently were the**
1) recommendations for reforms in the power sector
2) recommendation for tax reforms
3) guidelines for the privatization of public sector undertakings
4) guidelines for reducing vehicular pollution and the promotion of CNG use
- 123. Consider the following statements :**
1) The joint sitting of the two houses of the Parliament in India is sanctioned under Article 108 of the constitution
2) The first joint sitting of Lok Sabha and Rajya Sabha was held in the year 1961
3) The second joint sitting of the two Houses of Indian parliament was held to pass the Banking Service Commission (Repeal) Bill.
Which of these statements are correct ?
1) 1 and 2 2) 2 and 3 3) 1 and 3 4) 1, 2, and 3
- 124. Life expectancy is highest in the world in**
1) Canada 2) Germany 3) Japan 4) Norway
- 125. During the colonial periods in India, what was the purpose of the Whitley Commission?**
1) To review the fitness of India for further political reforms
2) To report on the existing conditions of Labour and to make recommendations
3) To draw up a plan for financial reforms for India.
4) To develop a comprehensive scheme for Civil Services in India.
- 126. Octopus is**
1) an arthropod 2) an echinoderm
3) a hemichordate 4) a mollusc
- 127. Consider the following conditions of a sick human body :**
1) Swollen lymph nodes 2) Sweating at night
3) Loss of memory 4) Loss of weight
Which of these are the symptoms of AIDS?
1) 1 and 2 2) 2, 3 and 4
3) 1, 3 and 4 4) 1, 2, 3, and 4
- 128. Emperor Harsha's southward march was stopped on the Narmada river by**
1) Pulakesin-I 2) Pulakesin-II
2) Vikramaditya-I 4) Vikramaditya-II
- 129. Under which Article of the Indian Constitution did the President give his assent to the ordinance on electoral reforms when it was sent back to him by the Union Cabinet without making any changes**

(in the year 2002)?

- 1) Article 121 2) Article 122
3) Article 123 4) Article 124

130. Dilip Kaur Tiwana is well known as a

- 1) literateur 2) musician
3) scientist 4) sportsperson

131. Consider the following statements :

- 1) The maximum limit of shareholding of Indian promoters in private sector banks in India is 49 per cent of the paid up capital
2) Foreign Direct Investment upto 49 per cent from all sources is permitted in private sector banks in India under the automatic route

Which of these statements is/are correct?

- 1) Only 1 2) Only 2
3) Both 1 and 2 4) Neither 1 nor 2

132. Match List-I (Cricketer) with List -II (Country) and select the correct answer using the codes given below the lists:

List-I

- A) Barry Richards
B) Ted Dexter
C) Alan Davidson
D) Charlie Griffith

List-II

- 1) England
2) West Indies
3) South Africa
4) New Zeland
5) Australia

Codes	A	B	C	D
1.		3	25	1
2.		5	14	2
3.		3	15	2
4.		5	24	1

133. Regarding the atom of a chemical element, the magnetic quantum number refers to

- 1) Orientation 2) shape
3) size 4) spin

134. Consider the following statements :

- 1) The common blue green algae *spirogyra* and *Ulthrix* are found in both fresh water ponds and oceans
2) The Chameleon can look ahead with one eye and at the same time look behind with another

Which of these statements is / are correct?

- 1) Only 1 2) Only 2
3) Both 1 and 2 4) Neither 1 nor 2

135. Which among the following countries has the largest population?

- 1) Indonesia 2) Japan 3) Pakistan 4) Sudan

Directions : The following fifteen (15) items consist of two statements: One labelled as the 'Assertion(A)' and the other as 'Reason (R)'. You are to examine these two statements carefully and select the answers to these items using the codes given below:

Codes :

1. Both A and R are individually true and R is the correct explanation of A
2. Both A and R are individually true but R is not the correct explanation of A
3. A is true but R is false
4. A is false but R is true

136. Assertion (A) :Emperor Akbar marched towards Afghanistan in 1581 with a huge army

Reason (R) :He was on his way to reclaim his ancestral country of Ferghana in Central Asia.

137. Assertion (A) :During the year 2001-02, the value of India's total exports declined, registering a negative growth of 2.17%.

Reason (R) :During the year 2001-02, negative growth in exports was witnessed in respect of iron and steel, coffee, textiles and marine products

138. Assertion (A) :The eastern coast of India produces more rice than the western coast.

Reason (R) :The eastern coast receives more rain fall than the western coast.

139. Assertion (A) :The new EXIM policy is liberal, market-oriented and favours global trade.

Reason (R) :GATT has played a significant role in the liberalisation of the economy.

140. Assertion (A) :In the periodic table of chemical elements, electron affinity is always found to increase from top to bottom in a group.

Reason (R) :In a group, the atomic radii generally increase from top to bottom.

141. Assertion (A) :Coal-based thermal power stations contribute to acid-rain.

Reason (R) :Oxides of carbon are emitted when coal burns.

142. Assertion (A) :The weight of a body decreases with the increase of latitude on earth.

Reason (R) :The earth is not a perfect sphere.

143. Assertion (A) :Unsaturated fats are more reactive compared with the saturated fats.

Reason (R) :Unsaturated fats have only single bonds in their structure.

144. Assertion (A) :The amount of moisture in the atmosphere is related to latitude.

Reason (R) :The capacity to hold moisture in the form of water vapour is related to temperature.

145. Assertion (A) :Unlike temperate forests, the tropical rain forests, if cleared, can yield productive farmland that can support intensive agriculture for several years even without chemical fertilizers.

Reason (R) :The primary productivity of the tropical rain forest is very high when compared to that of the temperate forests.

146. Assertion (A) :In 1916, Maulana Mohammad Ali and Abul Kalam Azad resigned from the Legislative Council.

Reason (R) :The Rowlatt Act was passed by the Government in spite of being opposed by all Indian members of the Legislative Council.

147. Assertion (A) :Shah Alam II spent the initial years as an Emperor far away from his capital.

Reason (R) :There was always a lurking danger of foreign invasion from the north-west frontier.

148. Assertion (A) :Areas lying within five to eight degrees latitude on either side of the equator receive rainfall throughout the year.

Reason (R) :High temperatures and high humidity cause convectional rain to fall mostly in the afternoons near the equator.

149. Assertion (A) :Saluva Narasimha put and end to the

old dynasty and assumed the royal title.

Reason (R) : He wanted to save the kingdom from further degeneration and disintegration.

150. Assertion (A) : Marathas emerged as the strongest native power in India after the decline of Mughal empire.

Reason (R) : Marathas were the first to have a clear concept of a United Indian Nation.

ANSWERS

1) 2	2) 2	3) 1	4) 3	5) 1	6) 3	7) 2	8) 1	9) 4	10) 4
11) 3	12) 3	13) 4	14) 3	15) 3	16) 3	17) 4	18) 3	19) 3	20) 1
21) 4	22) 1	23) 3	24) 3	25) 4	26) 3	27) 4	28) 3	29) 1	30) 1
31) 4	32) 4	33) 1	34) 2	35) 1	36) 3	37) 3	38) 1	39) 2	40) 2
41) 1	42) 4	43) 3	44) 1	45) 3	46) 1	47) 3	48) 2	49) 2	50) 3
51) 4	52) 3	53) 3	54) 3	55) 3	56) 2	57) 2	58) 3	59) 2	60) 3
61) 1	62) 3	63) 2	64) 1	65) 2	66) 3	67) 1	68) 4	69) 1	70) 4
71) 4	72) 1	73) 4	74) 2	75) 1	76) 2	77) 2	78) 3	79) 1	80) 2
81) 4	82) 1	83) 1	84) 4	85) 1	86) 2	87) 4	88) 2	89) 2	90) 3
91) 3	92) 4	93) 1	94) 3	95) 4	96) 2	97) 1	98) 4	99) 3	100) 3
101) 3	102) 2	103) 4	104) 2	105) 1	106) 2	107) 4	108) 3	109) 1	110) 2
111) 2	112) 3	113) 2	114) 1	115) 4	116) 1	117) 4	118) 1	119) 2	120) 4
121) 1	122) 2	123) 4	124) 3	125) 2	126) 4	127) 4	128) 2	129) 3	130) 1
131) 2	132) 3	133) 1	134) 3	135) 1	136) 3	137) 2	138) 3	139) 3	140) 4
141) 2	142) 4	143) 1	144) 4	145) 1	146) 4	147) 3	148) 1	149) 1	150) 3

GENERAL STUDIES CIVIL SERVICES - 2002

1. Consider the following financial institutions of India :
1. Industrial Finance Corporation of India (IFCI)
 2. Industrial Credit & Investment Corporation of India (ICICI)
 3. Industrial Development Bank of India (IDBI)
 4. National Bank for Agriculture and Rural Development (NABARD)
- The correct chronological sequence of the establishment of these institution is
- a. 1, 2, 3, 4 b. 2, 3, 4, 1 c. 3, 4, 1, 2 d. 4, 1, 2, 3
2. During the Indian freedom struggle, the Khudai Kidmatgars, also known as Red shirts, called for
1. the Union of Pashtan tribal areas in north-west with Afghanistan
 2. the adoption of terrorist tactics and methods for terrorising and finally outsing the colonial rulers
 3. the adoption of communist revolutionary ideology for political and social reform
 4. the pathan regional nationalist unity and a struggle against colonialism
3. Match List I (Commission) with List II (Matter of Enquiry) and select the correct answer using the codes given below the lists.
- | List - I
(Commission) | List - II
(Matter of Enquiry) |
|---------------------------|---------------------------------------|
| A. Wadhwa Commission | 1. The assassination of Rajiv Gandhi |
| B. Liberhan Commission | 2. Killing of Graham Staines |
| C. Sri Krishna Commission | 3. Demolition of structure at Ayodhya |
| D. Jain Commission | 4. Riots in Mumbai in 1993 |
- Codes :
- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 3 | 2 | 4 | 1 |
| 2. | 2 | 3 | 4 | 1 |
| 3. | 3 | 2 | 1 | 4 |
| 4. | 2 | 3 | 1 | 4 |
4. Consider the following statements :
1. In equatorial regions, the year is divided into four main seasons.
 2. In Mediterranean region summer receives more rain
 3. In China type climate, rainfall occurs throughout the year
 4. Tropical highlands exhibit vertical zonation of different climates
- Which of these statements are correct ?
1. 1, 2, 3 and 4
 2. 1, 2 and 3
 3. 1, 2 and 4
 4. 3 and 4
5. A World Summit with representation from all the countries will be held in Johannesburg in September 2002 on the subject of
1. AIDS control
 2. Global terrorism
 3. Human rights
 4. Sustainable development
6. Which one of the following statements is not correct ?
1. All echinoderms are viviparous
 2. Round worm has no circulatory system
 3. In bony fishes, swim bladder is usually present
 4. In cartilaginous fishes, fertilization is internal
7. Assume that the moon takes exactly 30 days to complete the cycle and also assume that it rises in the East exactly at 6.48 p.m. on the first day. On the fourth day, at what time will it raise ?
1. 8.24 p.m.
 2. 9.12 p.m.
 3. 10.00 p.m.
 4. 11.48 p.m.
8. Match List I (Scientists) with List II (Achievement) and select the correct answer using the codes given below the lists.
- | List - I
(Scientists) | List - II
(Achievement) |
|--------------------------|---|
| A. Arber and Smith | 1. Developed transgenic Plants with Agrobacterium T - DNA |
| B. Feldman | 2. Discovered endonucleases |
| C. Mullis | 3. Discovered reverse transcriptase |
| D. Temin and Baltimore | 4. Discovered polymerase Chain reaction |
- Codes :
- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 2 | 1 | 4 | 3 |
| 2. | 1 | 2 | 4 | 3 |
| 3. | 2 | 1 | 3 | 4 |
| 4. | 1 | 2 | 3 | 4 |
9. Berber speaking community, frequently in the news, lives in
1. Afghanistan
 2. Algeria
 3. Argentina
 4. Australia
10. In the case of election to the Lok Sabha, the amount of Security deposited for general category candidates and SC/ST category candidates respectively is
1. Rs. 5,000 and Rs. 2,500
 2. Rs. 10,000 and Rs. 2,500
 3. Rs. 10,000 and Rs. 5,000
 4. Rs. 15,000 and Rs. 7,500
11. With reference to Power Sector in India, consider the following statements ?
1. Rural Electrification has been treated as a basic Minimum Service under the Prime Minister's Gramodaya Yojana
 2. 100 percent Foreign Direct Investment in power is allowed without upper limit
 3. The Union Ministry of power has signed a Memoranda of Understanding with 14 states
- Which of these statements is/are correct ?

1. 1 only 2. 1 and 2 3. 2 and 3 4. 3 only

12. A country is said to be in a debt trap if

1. it has to abide by the conditionalities imposed by the international Monetary Fund
2. it has to borrow to make interest payments on outstanding loans
3. it has been refused loans or aid by creditors abroad
4. the world Bank charges a very high rate of interest on outstandings as well as new loans

13. which one of the following statements is correct?

1. Prions are the smallest free-living cells
2. The cell wall of Mycoplasmas is made up of amino sugars
3. Viroids consist of a single-stranded RNA molecule
4. Rickettsias lack cell wall

14. Match List I (Country) with List II (President) and select the correct answer using the codes given below the lists.

List - I
(Country)
A. Congo
B. Nigeria
C. Uganda
D. Zambia

List - II
(President)
1. Levy Mwanawasa
2. Joseph kabila
3. Olusegun Obasanjo
4. Yoweri Museveni

Codes :

	A	B	C	D
1.	2	3	4	1
2.	3	2	1	4
3.	2	3	1	4
4.	3	2	4	1

15. Consider the following ecosystems :

1. Taiga
2. Tropical evergreen
3. Tropical deciduous
4. tundra

The correct sequence in decreasing order of the albedo values of these ecosystems is

1. 1, 4, 3, 2
2. 4, 1, 2, 3
3. 4, 1, 3, 2
4. 1, 4, 2, 3

16. Consider the following statements :

Full convertibility of the rupee may mean

1. its free float with other international currencies
 2. its direct exchange with any other international currency at any prescribed place inside and outside the country
 3. it acts just like any other international currency
- Which of these statements are correct ?

a. 1 and 2 b. 1 and 3 c. 2 and 3 d. 1, 2 and 3

17. The sea coast of which one of the following states has become famous as a nesting place of the gaint Olive Ridley turtles from South America ?

1. Goa
2. Gujarat
3. Orissa
4. Tamilnadu

18. With reference to Indian satellites and their launchers, consider the following statements :

1. All the INSAT-series of satellites were launched abroad
2. PSLVs were used to launch IRS-series of satellites
3. India used the indigenously built cryogenic engines for the first time for powering the third stage of GSLV

4. GSAT, launched in the year 2001, had pay loads to demonstrate digital broadcasts and internal services

Which one of these statements are correct ?

1. 1, 2, 3 and 4
2. 2, 3 and 4
3. 1, 2 and 4
4. 1 and 3

19. The 93rd Constitutional Amendment deals with the

1. Continuation of reservation for backward classes in government employment
2. free and compulsory education for all children between the age of 6 and 14 years
3. reservation of 30 per cent posts for women in government recruitments
4. allocation of more number of parliamentary seats for recently created states

Directions : The following 10 items consist of two statements, one labelled as 'Assertion A' and the other labelled as 'Reason R'. You are to examine these two statements carefully and decide if the 'assertion A' and the 'Reason R' are individually true and if so, whether the 'Reason R' is a correct explanation of the 'assertion A'. Select your answers to these items using the codes given below and mark your answer sheet accordingly.

Codes :

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are true but R is NOT the correct explanation of A
3. A is true but R is false
4. A is false but R is true

20. Assertion (A) : Drinking of Whisky increases the frequency of urination

Reason (R) : Alcohol intake speeds up the secretion of vasopressin in the body

21. Assertion (A) : Muhammad bin Tughlaq left Delhi, and for two years lived in a camp called Swargashwari

Reason (R) : At that time, Delhi was ravaged by a form of plague and many people died.

22. Assertion (A) : With the increase of temperature, the viscosity of glycerine increases

Reason (R) : Rise of temperature increases kinetic energy of molecules.

23. Assertion (A) : The effect of labour participation in the Indian nationalist upsurge of the early 1930s was weak

Reason (R) : The labour leaders considered the ideology of Indian national congress as bourgeois and reactionary

24. Assertion (A) : Synthetic detergents can lather well in hard water.

Reason (R) : Synthetic detergents form soluble calcium and magnesium salts with hard water

25. Assertion (A) : 60°-65° latitudes in both the hemispheres have a low pressure belt instead of high pressure

Reason (R) : The low pressure areas are permanent over oceans rather than on land

26. Assertion (A) : Artificial satellites are always

launched from the earth in the east ward direction.

Reason (R) : The earth rotates from west to east and so the satellite attains the escape velocity

27. **Assertion (A) :** Human diet should compulsorily contain Glycine, Serine and Tyrosine.

Reason (R) : Essential amino acids cannot be synthesized in the human body

28. **Assertion (A) :** The surface winds spiral inwards upon the centre of the cyclone.

Reason (R) : Air descends in the centre of the cyclone

29. **Assertion (A) :** The surface winds spiral inwards upon the centre of the cyclone.

Reason (R) : Air descends in the centre of the cyclone

30. **A complete cycle of a traffic light takes 60 seconds. During each cycle the light is green for 25 seconds, yellow for 5 seconds, and red for 30 seconds. At a randomly chosen time, the probability that the light will not be green is**

1. $1/3$ 2. $1/4$ 3. $5/12$ 4. $7/12$

31. **The last opportunity to avoid the partition of India was lost with the rejection of**

1. Cripps Mission plan
2. Rajagopalachari Formula
3. Cabinet Mission 4. Wavell Plan

32. **With reference to India, which one of the following statements is not correct ?**

1. About one-third of the area of the country records more than 750 millimeters of annual rainfall
2. The dominant source of irrigation in the country is wells
3. Alluvial soil is the predominant type of soil in the northern plains of the country
4. the mountain areas account for about thirty percent of the surface area of the country

33. **A solid cube just gets completely immersed in water when a 0.2 kg mass is placed on it. If the mass is removed, the cube is 2cm above the water level. What is the length of each side of the cube?**

1. 12 cm 2. 10 cm 3. 8 cm 4. 6 cm

34. **The historian Barani refused to consider the state in India under Delhi Sultans as truly Islamic because**

1. the majority of the Population did not follow Islam
2. The Muslim theologians were often disregarded
3. the sultan supplemented the Muslim law by framing his own regulations
4. religious freedom was accorded to non Muslims

35. **Who among the following won the men's single title at the world Badminton Championship in the year 2001 ?**

1. Gopichand 2. Hendrawan
3. Ji Xin Peng 4. Peter Gade

36. **With reference to the latest developments in stem cell research, consider the following statements :**

1. The only source of human stem cells are the embryos at blastocyst stage
2. The stem cells can be derived without causing destruction to blastocysts

3. The stem cells can regenerate themselves in vitro virtually forever

4. Indian research centres also created a few cell lines which can be developed into many types of tissues

Which of these statements are correct ?

1. 1, 2, 3 and 4 2. 1, 2 and 3

3. 1, 2 and 4 4. 3 and 4

37. **In the year 2001, NASA launched a space craft to Mars named**

1. Mars Climate Orbiter 2. Mars Global Orbiter
3. Mars Odyssey 4. Mars Polar Lander

38. **Consider the following climatic and geographical phenomena :**

1. Condensation 2. High temperature & humidity
3. Orography 4. Vertical wind

Thunder Cloud development is due to which of these phenomena ?

1. 1 and 2 2. 2, 3 and 4

3. 1, 3 and 4 4. 1, 2, 3 and 4

39. **A trader fixed the price of an article in such a way that by giving a rebate of 10% in the price fixed he made a profit of 15%. If the cost of the article is Rs. 72, the price fixed on it is**

1. Rs. 82.80 2. Rs. 90.00 3. Rs. 92.00 4. Rs. 97.80

40. **Among living organisms, which one of the following is the most responsible factor for bringing about the origin of a new species ?**

1. Isolation 2. Mutation
3. Natural Selection 4. Sexual Reproduction

41. **For short-term climatic predictions, which one of the following events, detected in the last decade, is associated with occasional weak monsoon rains in the Indian subcontinent ?**

1. La Nina 2. Movement of Jet Streams
3. El Nino and Southern Oscillations
4. Green house effect on global level

42. **In the map given below, four islands of Indian Ocean region, i.e., (A) Seychellas, (B) Chagos, (C) Mauritius and (D) Socotra are marked as 1, 2, 3 and 4. Match them and select the correct answer from the codes given below.**

Codes :

	A	B	C	D
1.	1	3	4	2
2.	3	1	2	4
3.	1	3	2	4
4.	3	1	4	2

43. **"World Development Report" is an annual publication of**

1. United Nations Development Programme
2. International Bank of Reconstruction and Development
3. World Trade Organisation
4. International Monetary Fund

44. **Match List I (Ancient site) with List II (Archaeological finding) and select the correct answer using the codes given below the lists.**

List - I

(Ancient site)

List - II

(Archaeological finding)

- A. Lothal
- B. Kalibangan
- C. Dholavira
- D. Banawali

- 1. Ploughed field
- 2. Dockyard
- 3. Terracotta replica of a plough
- 4. An inscription comprising ten large sized signs of the Harappan script

Codes :

	A	B	C	D
1.	1	2	3	4
2.	2	1	4	3
3.	1	2	4	3
4.	2	1	3	4

45. Which one of the following statements is not correct ?

- 1. The statue of Gomateshwara at Sravanabelagola represents the last Tirthankara of Jains
- 2. India's largest Buddhist monastery is in Arunachal Pradesh
- 3. The Khajuraho temples were built under Chandela kings
- 4. The Hoysalesvara temple is dedicated to Siva

46. Open stunted forests with bushes and small trees having long roots and sharp thorns or spines are commonly found in

- 1. Eastern Orissa
- 2. North-Eastern Tamil Nadu
- 3. Siwaliks and Terai regions
- 4. Western Andhra Pradesh

47. Match List I (Article of Indian Constitution) with List II (Provisions) and select the correct answer using the codes given below the lists.

List - I

(Article of Indian Constitution)

A. Art. 16 (2)

B. Art. 29 (2)

C. Art. 30 (1)

D. Art. 31 (1)

List - II

(Provisions)

- 1. No person shall be deprived of his property save by the authority of law.
- 2. No person can be discriminated against in the matter of public appointment on the ground of race, religion or caste.
- 3. All minorities whether based on religion or language shall have the fundamental right to establish and administer educational institutions of their choice.
- 4. No citizen shall be denied admission into any educational institution maintained by the State, or receiving State aid, on ground of religion, race, caste, language or any of them

Codes :

	A	B	C	D
1.	2	4	3	1
2.	3	1	2	4

- 3. 2 1 3 4
- 4. 3 4 2 1

48. In ancient Indian Buddhist monasteries, a ceremony called pavarana used to be held. It was the

- 1. occasion to elect the Sanghapaninayaka and two speakers one on Dhamma and the other on Vinaya
- 2. confession by monks of their offences committed during their stay in the monasteries during the rainy season
- 3. ceremony of initiation of new person into the Buddhist Sangha in which the head is shaved and when yellow robes are offered
- 4. gathering of Buddhist monks on the next day to the full-moon day of Ashadha when they take up a fixed adobe for the next four months of rainy season

49. Consider the volumes of the following :

- 1. A parallelepiped of length 5 cm, breath 3 cm and height 4 cm
- 2. A cube of each side 4 cm
- 3. a cylinder of radius 3 cm and length 3 cm
- 4. a sphere of radius 3 cm

The volumes of these in the decreasing order is

- 1. 1, 3, 2, 4
- 2. 4, 2, 3, 1
- 3. 1, 2, 3, 4
- 4. 4, 3, 2, 1

50. Consider the following statements :

- 1. Indian Electricity Act, 1910
- 2. Electricity (Supply) Act, 1948
- 3. Electricity Regulatory Commission Act, 1998
- 4. State Electricity Boards

Which of these statements are correct ?

- 1. 1, 2 and 3
- 2. 2, 3 and 4
- 3. 1, 2 and 4
- 4. 1, 3 and 4

51. Consider the following Statements :

- 1. The World Intellectual Property Organisation (WIPO) is a specialized agency of UN system of organisations
- 2. WIPO has its headquarters at Rome
- 3. The Trade Related Aspects of Intellectual Property Rights (TRIPS) Agreement is binding on all WTO members
- 4. Least developed country members of WTO are not required to apply the provisions of TRIPS Agreement for a period of 20 years from the general date of application of the Agreement

Which of these statements are correct ?

- 1. 1, 2, 3 and 4
- 2. 2, 3 and 4

- 3. 1, 2 and 4
- 4. 1 and 3

52. India has the maximum volume of foreign trade with

- 1. USA
- 2. Japan
- 3. Germany
- 4. UAE

53. Which one of the following is not a lagoon ?

- 1. Ashtamudi lake
- 2. Chilika lake

- 3. Periyar lake
- 4. Pulicat lake

54. Ticks and mites are actually

- 1. Arachnids
- 2. Crustaceans

- 3. Insects
- 4. Myraapods

55. With reference to the blood in a normal person, which one of the following statements is correct?

- 1. Compared to arteries, veins are less numerous and hold less of the body's blood at any given time

- 2. Blood cells constitute about 70 percent of the total

- volume of the blood
- White Blood Cell (WBC) are made by lymph nodes only
 - The blood has more platelets than WBC
- 56. Which one of the following statements is correct with reference to our solar system ?**
- The Earth is the densest of all the planets in our solar system
 - The predominant element in the composition of earth is silicon
 - The sun contains 75 percent of the mass of the solar system
 - The diameter of the sun is 190 times that of the Earth
- 57. Which one of the following statements is not correct ?**
- The boiling point of an aqueous solution is higher than that of pure water
 - Addition of solutes to a solution causes an increase in its water potential
 - The vapour pressure of the water in a solution is lower than that of pure water
 - When a solution is separated from water by a semi-permeable membrane, water movement can be prevented by applying pressure to the solution
- 58. With reference to Indian agriculture, which one of the following statements is correct ?**
- About 90 percent of the area under pulses in India is rained
 - The share of pulses in the gross cropped area at the national level has doubled in the last two decades
 - India accounts for about 15 percent of the total area under rice in the world
 - Rice occupies about 34 percent of the gross cropped area of India
- 59. With reference to Sufism in Indian history, consider the following statements :**
- Shaikh Ahmad Sarhandi was a contemporary of Ibrahim Lodi.
 - Shaikh Nasiruddin Chirg-Dehlavi was a disciple of Shaikh Nizamuddin Auliya
 - Aurangzeb was a contemporary of Shaikh Salim Chisti
 - The Qadiri order of Sufis was first introduced in India by Shaikh Niamtullah and Makgum Muhammad Jilani
- Which of these statements are correct ?**
- 1 and 2
 - 1 and 3
 - 2 and 3
 - 2 and 4
- 60. The salaries and allowances of the judges of the High court are charged to the**
- Consolidated fund of India
 - Consolidated Fund of the State
 - Consolidated fund of India
 - Contingency Fund of the State
- 61. Consider the following plants :**
- | | |
|-------------------------|----------------------|
| 1. Bougainvillea | 2. Carnations |
| 3. Cocoa | 4. Grapes |
- Which of these plants are propagated by stem cuttings ?**
- | | |
|---------------|------------------|
| 1. 1 and 2 | 2. 2, 3 and 4 |
| 3. 1, 3 and 4 | 4. 1, 2, 3 and 4 |
- 62. The members of the Constituent Assembly which drafted the Constitution of India were**
- nominated by British Parliament
 - nominated by Governor General
 - elected by Legislative Assemblies of various provinces
 - Elected by the Indian Congress and Muslim League
- 63. A train of length 150 metres, moving at a speed of 90 km/hr can cross a 200 metre bridge in**
- | | |
|--------------|---------------|
| 1. 8 seconds | 2. 14 seconds |
| 3. 6 seconds | 4. 15 seconds |
- 64. The ancient Indian play Mudrarakshasa of Visakhadutt has its subject on**
- a conflict between Gods and Demons of ancient Hindu lore
 - a romantic story of an Aryan prince and a tribal woman
 - the story of the power struggle between two Aryan tribes
 - the court intrigues at the time of Chandragupta Maurya
- 65. India's external debt increased from US \$ 98,158 million as at the end of March 2000 to US \$ 100,225 million as at the end of March 2001 due to increase in**
- multilateral and bilateral debt
 - rupee debt
 - commercial borrowings and NRI deposits
 - borrowings from International Monetary Fund
- 66. With reference to the Indian economy, consider the following activities :**
- Agriculture, Forestry & Fishing
 - Manufacturing
 - Trade, Hotels, Transport and Communication
 - Financing, Insurance, Real Estate and Business services
- The decreasing order of the contribution of these sectors to the Gross domestic Product (GDP) at factor cost at constant prices (2000-01) is**
- | | |
|---------------|---------------|
| 1. 3, 1, 2, 4 | 2. 1, 3, 4, 2 |
| 3. 3, 4, 1, 2 | 4. 1, 3, 2, 4 |
- 67. Who among the following set a new national record in the women's Pole-valut event in the 7th edition of Senior Federation Cup held in Karnataka in the year 2001 ?**
- | | |
|-------------------|-----------------|
| 1. G.G. Pramila | 2. Joythna Deka |
| 3. Karamjeet kaur | 4. Manisha Dey |
- 68. The main reason for unrest and violence in Zimbabwe in recent years is due to**
- conflict between different native ethnic groups
 - prolonged crisis over land reforms
 - economic crisis due to continuous drought and famine
 - power struggle between political groups of white European settlers and native black community
- 69. Match List I (Artist) with List II (Art) and select the correct answer using the codes given below the lists.**
- | | |
|-----------------|------------------|
| List - I | List - II |
| (Artist) | (Art) |

- A. Hiren Bhattacharya 1. Bharatnatyam dance
 B. Malini Rajurkar 2. Hindustani vocal music
 C. Pratibha Prahlad 3. Kuchipudi dance
 D. Vempati China Satyam 4. Puppetry

Codes :

	A	B	C	D
1.	4	2	1	3
2.	3	1	2	4
3.	4	1	2	3
4.	3	2	1	4

70. Consider the following natural phenomena :
 1. Terrestrial heating 2. Reflection of light
 3. Refraction of light 4. Diffraction of light
 Due to which of these phenomena is mirage formed?

1. 1 and 2 2. 2, 3 and 4
 3. 1 and 3 4. 4 only

71. HINDALCO, an aluminium factory located at Renukut owes its site basically to

1. proximity of raw materials
 2. abundant supply of power
 3. efficient transport network
 4. proximity to the market

72. In the context of organic evolution, the loss of limbs of snakes is explained by the phenomenon of

1. use and disuse of organs
 2. adaptation of living in burrows
 3. natural selection
 4. inheritance of acquired characters

73. The purpose of the inclusion of Directive Principles of State Policy in the Indian Constitution is to establish

1. Political democracy 2. Social democracy
 3. Gandhian democracy
 4. Social and economic democracy

74. Consider the following statements :

The objective of the National Renewal Fund set up in February 1992 were

1. to give training and counselling for workers affected by retrenchment or VRS
 2. redeloyment of workers

Which of these statements is/are correct ?

1. Neither 1 nor 2 2. Both 1 and 2
 3. 1 only 4. 2 only

75. Consider the following statements :

1. Ocean currents are the slow-surface movement of water in the ocean
 2. Ocean currents assist in maintaining the Earth's heat balance
 3. Ocean currents are set in motion primarily by prevailing winds
 4. Ocean currents are affected by the configuration of the ocean

Which of these statements are correct ?

1. 1 and 2 2. 2, 3 and 4
 3. 1, 3 and 4 4. 1, 2, 3 and 4

76. Which country among the following has been involved in two ties in Test cricket ?

1. Australia 2. India
 3. West Indies 4. England

77. Match List I (Organisation) with List II (Headquarters) and select the correct answer using the codes given below the lists.

List - I

(Organisation)

- A. International Atomic Energy Agency
 B. International Telecommunication Union
 C. Council of the European Union
 D. Organisation for Economic Cooperation and development

List - II

(Headquarters)

1. Brussels
 2. Geneva
 3. Paris
 4. Vienna

Codes :

	A	B	C	D
1.	1	2	4	3
2.	4	3	1	2
3.	1	3	4	2
4.	4	2	1	3

78. With reference to the Public Sector Undertakings in India, consider the following statements :

1. Minerals and Metals Trading Corporation of India Limited is the largest non-oil importer of the country

2. Project and Equipment Corporation of India limited is under the Ministry of Industry

3. One of the objectives of export Credit guarantee Corporation of India Limited is to enforce quality control and compulsory pre-shipment inspection of various exportable commodities

Which of these statements is/are correct ?

1. 1 only 2. 1 and 2 3. 2 and 3 4. 3 only

79. Match List I (Book) with List II (Author) and select the correct answer using the codes given below the lists.

List - I

(Book)

- A. Aurobiography of an Unknown Indian
 B. India : A wounded Civilization
 C. Confessions of a Lover
 D. The English teacher

List - II

(Author)

1. Mulk Raj Anand
 2. Nirad C. Chaudhari
 3. R.K.Narayan
 4. V.S. Naipaul

Codes :

	A	B	C	D
1.	1	3	2	4
2.	2	4	1	3
3.	1	4	2	3
4.	2	3	1	4

80. With reference to the Indian Public Finance, consider the following statements :

1. External liabilities reported in the Union Budget are based on historical exchange rates

2. The continued high borrowing has kept the real interest rates high in the economy

3. the upward trend in the ratio of Fiscal deficit to GDP in recent years has an adverse effect on private investments

4. Interest payments is the single largest component of the non-plan revenue expenditure of the Union Government

Which of these statements are correct ?

1. 1, 2 and 3 2. 1 and 4

3. 2, 3 and 4 4. 1, 2, 3 and 4
- 81. With reference to Indian Polity, which one of the following statements is correct ?**
1. Planning commission is accountable to parliament
 2. President can make ordinance only when either of the two houses of Parliament is not in session
 3. The minimum age prescribed for appointment as a judge of the Supreme Court is 40 years
 4. National development Council is constituted of Union Finance Minister and the Chief Ministers of all the States
- 82. The correct sequence of the eastward flowing rivers of the peninsular India from north to south is**
1. Subranarekha, Mahanadi, Godavari, Krishna, Cauvery and Vagai
 2. Subranarekha, Mahanadi, Krishna, Godavari, Cauvery and Vagai
 3. Mahanadi, Subranarekha, Godavari, Krishna, Cauvery, Pennar and Vagai
 4. Mahanadi, Subranarekha, Krishna, Godavari, Cauvery, Vagai and Pennar
- 83. The World's highest ground based telescopic observatory is located in**
1. Colombia 2. India
 3. Nepal 4. Switzerland
- 84. Two ladies simultaneously leave cities A and B connected by a straight road and travel towards each other. The first lady travels 2km/hr faster than second lady and reaches B one hour before the second lady reaches A. The two cities A and B are 24 km apart. How many kilometers does each lady travel in one hour ?**
1. 5 km, 3 km 2. 7 km, 5 km
 3. 8 km, 6 km 4. 16 km, 14 km
- 85. Consider the following names :**
1. Archbishop Desmond Tutu 2. Lech Walesa
 3. Shimon Peres 4. Yasser Arafat
- Who among these won the Noble Peace Prize ?**
1. 1 and 2 2. 1, 3 and 4
 3. 2, 3 and 4 4. 1, 2, 3 and 4
- 86. With which one of the following mountain tribes did the British first come into contact with after the grant of Diwani in the year 1765 ?**
1. Garos 2. Khasis 3. Kukis 4. tipperahs
- 87. with reference to Indian transport systems, consider the following statements :**
1. Indian railway system is the largest in the world
 2. National Highways cater to 45 percent of the total road transport demand
 3. Among the states, Kerela has the highest density of surface road
 4. National Highway No. 7 is the longest in the country
- Which of these statements are correct ?**
1. 1 and 2 2. 1 and 3
 3. 2 and 3 4. 2 and 4
- 88. Match List I (Name of the Lady) with List II (Achievement) and select the correct answer using the codes given below the lists.**

List - I

List - II

(Name of the Lady)	(Achievement)
A. Chinna Pillai	1. Winner of Neerja Bhanot Award
B. Kaveri Thakur	2. Recipient of Stree Shakti Puraskar
C. Mira Nair	3. Became the fastest swimmer in Asia at age of 16 years
D. Yasoda Ekambaram	4. Recipient of the Golden Lion at Venice Film festival

Codes :

	A	B	C	D
1.	3	2	1	4
2.	2	3	4	1
3.	3	2	4	1
4.	2	3	1	4

- 89. With reference to the government's welfare schemes, consider the following statements :**
1. Under the Antyodaya Anna Yojana, the food grains are available to the poorest of the poor families at Rs. 2 per kg for wheat and Rs. 3 per kg for rice
 2. Under the National Old Age Pension Scheme, the old and destitute are provided Rs. 75 per month as central pension, in addition to the amount provided by most State Governments
 3. Government of India has allocated 25 kg food grains per below poverty line family per month, at less than half the economic cost.
- Which of these statements are correct ?**
1. 1 and 2 2. 1 and 3 3. 2 and 3 4. 1, 2 and 3
- 90. Consider the following countries :**
1. Brazil 2. Indonesia 3. Japan 4. Russia
- What is the descending order of the size of the following countries population - wise ?**
1. 1, 2, 4 and 3 2. 2, 3, 1 and 4
 3. 2, 1, 4 and 3 4. 1, 2, 3 and 4
- 91. Consider the following countries :**
1. Angola 2. Colombia
 3. Congo 4. Sudan
- Which of these countries has/have been suffering from civil war ?**
1. 1 only 2. 2 and 3 3. 4 only 4. 1, 2, 3 and 4
- 92. Who among the following was the first Bhakti saint to use Hindi for the propagation of his message ?**
1. Dadu 2. Kabir
 3. Ramananda 4. Tulsidas
- 93. In a bisexual flower, if androecium and gynaecium mature at different times the phenomenon is known as**
1. Dichogamy 2. herkogamy
 3. Heterogamy 4. Monogamy
- 94. The average annual temperature of a meteorological station is 26°C, its average annual rainfall is 63 cm and the annual range of temperature is 9°C. the station in question is**
1. Allahabad 2. Chennai
 3. Cherrapunji 4. Kolkata
- 95. With reference to the period of extremist nationalist movement in India with its spirit of Swadeshi, which one of the following statements is not cor-**

rect ?

1. Liakhat Hossian led the Muslim peasants of Barisal in their agitations
2. In 1898, the Scheme of national education was formulated by Satish Chandra Mukherjee
3. The Bengal national college was founded in 1906 with Aurobindo as the Principle
4. Tagore preached the cult of Atmasakti, the main plank of which was social and economic regeneration of the villages

96. In the Indian Constitution, the Right to equality is granted by five articles. They are

1. Article 16 to Article 20
2. Article 15 to Article 19
3. Article 14 to Article 18
4. Article 13 to Article 17

97. Amit started a business by investing Rs. 30,000. Rahul joined the business after some time and invested Rs. 20,000. At the end of the year profit was divided in the ratio of 2 : 1 After how many months did Rahul join the business ?

1. 2
2. 3
3. 4
4. 5

98. When the time in the wall-clock in 3.25 p.m. the acute angle between the hours hand and the minutes - hand is

1. 60^0
2. $52\frac{1}{2}^0$
3. $47\frac{1}{2}^0$
4. 42^0

99. Which one of the following amendments to the Indian Constitution empowers the President to send back any matter for reconsideration by the Council of Ministers ?

1. 39th
2. 40th
3. 42nd
4. 44th

100. Recently, several hundred South African soldiers were sent to Burundi

1. to side with Tutsi tribe in the country's civil war
2. to side with the Hutu tribe in the ongoing ethnic conflict
3. as apart of United Nations special force to keep control on the ethnic groups revolting against the government
4. as South Africa's protection force to help mediate and agreement between warring groups of civil war

101. Chapachar kut is a festival celebrated in the state of

1. Arunachal Pradesh
2. Assam
3. Mizoram
4. Sikkim

102. Consider the following statements :

1. NTPC is the largest power utility in India
2. ONGC accounts for half of the LPG production in India
3. Indian Oil Corporation operates all the oil refineries in India
4. The Indian Ordinance Factory is the largest departmentally run industrial under taking in the country

Which of these statements is/are correct

1. 1 only
2. 2 and 3
3. 2, 3 and 4
4. 1 and 4

103. Match List I (Oxidation number) with List II (The element) and select the correct answer using the codes given below the lists.

List - I (Oxidation number)

- List - II (The element)
1. Oxidation number of Mn in MnO_2
 2. Oxidation number of S in $H_2S_2O_7$
 3. Oxidation number of Ca in CaO_2
 4. Oxidation number of Al in $NaAlH_4$

Codes :

	A	B	C	D
1.	3	4	1	2
2.	4	3	1	2
3.	3	4	2	1
4.	4	3	2	1

104. With reference to the Indian freedom struggle, which one of the following statements is not correct ?

1. Hakim ajmal Khan was one of the leaders to start a nationalist and militant Ahrar movement
2. When the Indian National Congress was formed, Sayyid Ahmad Khan opposed it
3. The All-India Muslim League which was formed in 1906 vehemently opposed the partition of Bengal and seperate electorates
4. Maulana Barkatullah and Maulana Obeidullah Sindhi were among those who formed a Provisional Government of India in Kabul

105. The Asia-Pacific Economic Co-operation Forum was held in the year 2001 in

1. Bangkok
2. Hongkong
3. Jakarta
4. Shanghai

106. Match List I (ethnic Community) with List II (Country) and select the correct answer using the codes given below the lists.

List - I (ethnic Community)	List - II (Country)
A. Apatani	1. China
B. Dayak	2. India
C. Dinka	3. Idonesia
D. Uighur	4. Sudan

Codes :

	A	B	C	D
1.	2	3	4	1
2.	3	2	4	1
3.	2	3	1	4
4.	3	2	1	4

107. The term of the Lok Sabha

1. Cannot be extended under any circumstances
2. Can be extended by six months at a time
3. Can be extended by one year at a time during the proclamation of emergency
4. Can be extended for two years at a time during the proclamation of emergency

108. In the year 2001, Germany approved a \$ 32 million credit to India

1. To promote primary education in selected States
2. For Tehri dam project
3. To assist in the development of nuclear power generation projects
4. For oceanographic research

109. Consider the following :

1. Currency with the public
 2. Demand deposits with banks
 3. time deposits with banks
 Which of these are included in Broad Money (M3) in India ?
 1. 1 and 2 2. 1 and 3 3. 2 and 3 4. 1, 2 and 3
110. Who among the following won six gold medals in the 9th FINA-World Swimming championship held in Fukuoka, Japan in the year 2001 ?
 1. Grant hackett 2. Ian Thrope
 3. Michael Phelps 4. Roman Sloudnow
111. Foot-and-Mouth disease in animals, a current epidemic in some parts of the world, is caused by
 1. bacterium 2. Fungus
 3. Protozoan 4. Virus
112. In the year 2001, India offered a grant of five million dollars to Tajikistan to
 1. tackle the drought situation
 2. set up a Software Technology park
 3. promote mineral exploration
 4. procure defence equipment
113. Consider the following countries :
 1. Albania 2. Bosnia Herzegovina
 3. Croatia 4. macedonia
 Which of these countries has/have Adriatic Sea as a boundary ?
 1. 1 and 2 2. 1, 2 and 3 3. 4 only 4. 3 and 4
114. A hollow sphere of radius R, a hollow cube of side R and a thin circular plate of radius R, made up of the same material, are all heated to 20°C above room temperature. When left to cool in the room, which of them will reach the room temperature first ?
 1. Circular plate 2. Cube
 3. Sphere
 4. all of them will reach the room temperature at the same time
115. Which one of the following committees recommended the abolition of reservation of items for the small scale sector in industry ?
 1. Abid Hussian Committee
 2. Narasimhan Committee
 3. Nayak Committee
 4. Rakesh Mohan Committee
116. India's population growth during the 20th century can be classified into four distinct phases. Match List I (Period) with List II (Phase) and select the correct answer using the codes given below the lists.
- | | | | | |
|-----------------------------|--|--|--|--|
| List - I
(Period) | List - II
(Phase) | | | |
| A. 1901-1921 | 1. Steady growth | | | |
| B. 1921-1951 | 2. Rapid high growth | | | |
| C. 1951-1981 | 3. Stagment growth | | | |
| D. 1981-2001 | 4. High growth with definite signs of slowdown | | | |
- Codes :**
- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 3 | 1 | 4 | 2 |
| 2. | 1 | 3 | 2 | 4 |
3. 3 1 2 4
 4. 1 3 4 2
117. Who was the first Indian lady actress to receive the padma shri Award ?
 1. Smita patil 2. Nargis Dutt
 3. Meena Kumari 4. Madhubala
118. With reference to medieval Indian rulers, which one of the following statements is correct ?
 1. Alauddin khalji first set up a seperate ariz's department
 2. Balban introduced the branding system of horses of his military
 3. Muhammad hin tughlaq was succeeded by his uncle to the Delhi throne
 4. Firuz Tughlaq set up a seperate department of slaves
119. Match List I (Indian Wildlife Species) with List II (Scientific names) and select the correct answer using the codes given below the lists.
- | | |
|--|--|
| List - I
(Indian Wildlife Species) | List - II
(Scientific names) |
| A. Asiatic Wild ass | 1. Boselaphus tragocamelus |
| B. Barasingha | 2. Cervus duvauceli |
| C. Chinkara | 3. Equus hemionus |
| D. Nilgai | 4. Gazella gazella |
- Codes :**
- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 2 | 3 | 1 | 4 |
| 2. | 3 | 2 | 4 | 1 |
| 3. | 2 | 3 | 4 | 1 |
| 4. | 3 | 2 | 1 | 4 |
120. The motive behind Shah Jahan's Balkh campaign was to
 1. secure a friendly ruler in Balkh and Badakshan which bordered Kabul
 2. conquer Samarqand and Farghana, the Mughal homelands
 3. Fix the Mughal frontier on the 'Scientific line', the Amu Daria
 4. expand the Mughal Empire beyond the sub-continent
121. Consider the following high yielding varities of crops in India :
 1. Arjun 2. Jaya 3. Padma 4. Sonalika
 Which of these are wheat ?
 1. 1 and 2 2. 2 and 3 3. 1 and 4 4. 3 and 4
122. which one of the following submitted in 1875 a petition to the House of Commons demanding India's direct representation in the British Parliament ?
 1. The Deccan Association
 2. The Indian Association
 3. The Madras Mahajan Sabha
 4. The Poona Sarvajanika Sabha
123. The real intention of the British to include the princely states in the federal Union proposed by the India Act of 1935 was to :
 1. exercise more and direct political and administrative control over the princely states
 2. involve the princes actively in the administration of the colony

3. finally effect the complete political and administrative take-over of all the princely states by the British
4. use the princes to counter - balance the antiimperialist doctrines of the nationalist leaders
- 124. When one gene controls two or more different characters simultaneously, the phenomenon is called**
1. Apomixis
 2. Pleiotropy
 3. Polyploidy
 4. Polyteny
- 125. Sun's halo is produced by the refraction of light in**
1. water vapour in stratus clouds
 2. ice crystals Cirro-Cumulus clouds
 3. ice crystals in Cirrus clouds
 4. dust particles in Stratus clouds
- 126. Which one of the following Articles of the Directive Principles of State Policy deals with the promotion of international peace and security ?**
1. 51
 2. 48A
 3. 43A
 4. 41
- 127. Which one of the following rights was described by Dr. B.R.Ambedkar as the heart and soul of the constitution ?**
1. Right to freedom of religion
 2. Right to Property
 3. Right to equality
 4. Right to Constitutional Remedies
- 128. With reference to the Wholesale Price Index (WPI), consider the following statements :**
1. the new WPI series with base 1993-94 = 100 became effective from April 1998
 2. In the new WPI series, the weight for primary articles has gone down by 10 percentage points
 3. The weight for electricity has increased in the new WPI series
- Which of these statements are correct ?**
1. 1, 2 and 3
 2. 2 and 3
 3. 1 and 3
 4. 1 and 2
- 129. Match List I (Acts of Colonial Government of India) with List II (Provisions) and select the correct answer using the codes given below the lists.**
- | List - I | List - II |
|--|--|
| (Acts of Colonial Government of India) | (Provisions) |
| A. Charter Act, 1813 | 1. Set up a Board of Control in Britian to fully regulate the East India Company's affairs in India |
| B. Regulating Act | 2. Company's trade monopoly in India was ended |
| C. Act of 1858 | 3. The power to govern was transferred from the East India Company to the Britian Crown |
| D. Pitt's India Act | 4. The Company's directors were asked to present to the British government all correspondence and documents pertaining to the administration of the |

- Company**
- Codes :**
- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 2 | 4 | 3 | 1 |
| 2. | 1 | 3 | 4 | 2 |
| 3. | 2 | 3 | 4 | 1 |
| 4. | 1 | 4 | 3 | 2 |
- 130. Match List I (Mangrove) with List II (State) and select the correct answer using the codes given below the lists.**
- | List - I | List - II |
|---------------------------|--------------------------|
| (Mangrove) | (State) |
| A. Achra Ratnagiri | 1. Karnataka |
| B. Coondapur | 2. Kerela |
| C. Pichavaram | 3. Andhra Pradesh |
| D. Vembanad | 4. Maharastra |
| | 5. Tamil Nadu |
- Codes :**
- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 2 | 1 | 5 | 4 |
| 2. | 4 | 5 | 3 | 2 |
| 3. | 2 | 5 | 3 | 4 |
| 4. | 4 | 1 | 5 | 2 |
- 131. Which one of the following Act of British India strengthened the Viceroy's authority over his executive council by substituting "Portfolio" or departmental system for corporate functioning ?**
1. Indian Council Act, 1861
 2. Government of India Act, 1858
 3. Indian Councils Act, 1892
 4. Indian Councils Act, 1909
- 132. The age of a man is three times the sum of the ages of his two sons, Five years hence, his age will be double of the sum of the ages of his sons. The father's present age is**
1. 40 years
 2. 45 years
 3. 50 years
 4. 55 years
- 133. The length of the longest pole that can be placed in a room 12m long and 9m wide and 8m high is**
1. 12m
 2. 14m
 3. 17m
 4. 21m
- 134. With reference to the human body, consider the following statements :**
1. The production of somatotropin goes up when a person exercises
 2. Men's tests produce progesterone
 3. Women's adrenal glands secrete testosterone
 4. Stress causes the adrenals to release very less amount of cortisol than usual
- Which of these statements are correct ?**
1. 1, 2, 3 and 4
 2. 1, 2 and 3
 3. 2, 3 and 4
 4. 1 and 4
- 135. In the year 2001, the Prime Minister announced a five year excise duty holiday for industries in**
1. Cyclone prone coastal Andhra Pradesh
 2. Border states of North-East
 3. Earthquake revaged Kutch district
 4. Recently formed states of Chhattisgarh and Jharkhand
- 136. Consider the following statements with reference to India :**

1. The Chief Election Commissioner and other Election Commissioners enjoy equal power but receive unequal salaries
2. The Chief Election Commissioner is entitled to the same salary as is provided to a judge of the Supreme Court
3. The Chief Election Commissioner shall not be removed from his office except in like manner and on like grounds as a judge of the Supreme Court
4. The term of office of the Election Commissioner is five years from the date he assumes his office or till the day he attains the age of 62 years, whichever is earlier.
- Which of these statements are correct ?
1. 1 and 2 2. 2 and 3
3. 1 and 4 4. 2 and 4
- 137. In a company 60% of the employees are men. Of these 40% are drawing more than Rs. 50,000 per year. If 36% of the total employees of the company draw more than Rs. 50,000 per year what is the percentage among women who are drawing less than Rs. 50,000 per year ?**
1. 70 2. 60 3. 40 4. 30
- 138. Consider the following statements :**
- 1. Light the longer wavelength is scattered much more than the light of shorter wavelength**
- 2. The speed of visible light in water is 0.95 times the speed in vacuum**
- 3. Radio waves are produced by rapidly oscillating electrical currents**
- 4. To detect the overspeeding vehicles, police use the Doppler effect of reflected short radio waves**
- Which of these statements are correct ?
1. 1 and 2 2. 1 and 3 3. 2 and 4 4. 3 and 4
- 139. Global capital-flows to developing countries increased significantly during the nineties. In view of the East Asian Financial Crisis and Latin American experience. Which type of inflow is good for the host country ?**
1. Commercial loans
2. Foreign Direct Investment
3. Foreign Portfolio Investment
4. External Commercial Borrowings
- 140. In terms of value, which one of the following commodities accounted for the largest agricultural exports by India during the three year period from 1997-1998 to 1999-2000 ?**
1. Cereals 2. Marine Products
3. Spices 4. Tea
- 141. In the year 2001, in which one of the following events of Women's Singles did Venus Williams defeat Serena Williams to win the title ?**
1. Australian Open 2001 2. French Open 2001
3. Wimbledon 2001 4. US Open 2001
- 142. The Consultative Committee of Members of Parliament for Railway Zones is constituted by the**
1. President of India 2. Ministry of Railways
3. Ministry of Parliamentary Affairs
4. Ministry of Transport
- 143. Which one of the following is monogamous ?**
1. wolf 2. Walrus 3. Seal 4. Deer
- 144. Five year Plan in India is finally approved by**
1. Union Cabinet
2. President on the advice of Prime Minister
3. Planning Commission
4. National Development Council
- 145. Consider the following countries of South Asia ?**
- 1. Bangladesh 2. India**
3. Pakistan 4. Sri Lanka
- The descending order of literacy status of these countries is :**
1. 4, 2, 1 and 3 2. 2, 4, 3 and 1
3. 4, 2, 3 and 1 4. 2, 4, 1 and 3
- 146. Among the following major stock exchanges of India, the exchange which recorded highest turnover during the year 2000-01 is**
1. Bombay Stock Exchange
2. Calcutta Stock Exchange
3. Delhi Stock Exchange
4. National Stock Exchange
- 147. A bus is moving with a speed of 30 km/hr ahead of a car with a speed of 50 km/hr. How many kilometers apart are they if it takes 15 minutes for the car to catch up with the bus ?**
1. 5 km 2. 7.5 km 3. 12.5 km 4. 15 km
- 148. The President of Indian National Congress at the time of partition of India was**
1. C. Rajagopalachari 2. J.B. Kripalani
3. Jawaharlal Nehru
4. Maulana Abul Kalam Azad
- 149. Which one of the following authorities recommends the principles governing the grants-in-aid of the revenues to the states out of the Consolidated Fund of India ?**
1. Finance Commission 2. Inter-State Council
3. Union Ministry of Finance
4. Public Accounts Committee
- 150. With reference to Colonial Period of Indian history. Match List I (Person) with List II (Event) and select the correct answer using the codes given below the lists.**
- | | List - I | | List - II | | |
|----|----------------------|---|-----------------------------|---|---|
| | (Person) | | (Event) | | |
| | A. Macdonald | | 1. Doctrine of Lapse | | |
| | B. Linlithgo | | 2. Communal Award | | |
| | C. Dalhousie | | 3. August Offer | | |
| | D. Chelmsford | | 4. Dyarchy | | |
| | Codes : | | | | |
| | | A | B | C | D |
| 1. | 3 | | 2 | 1 | 4 |
| 2. | 3 | | 2 | 4 | 1 |
| 3. | 2 | | 3 | 1 | 4 |
| 4. | 2 | | 3 | 4 | 1 |

ANSWERS

1) 1	2) 4	3) 2	4) 4	5) 4	6) 1	7) 2	8) 1	9) 2	10) 3
11) 3	12) 2	13) 3	14) 1	15) 3	16) 1	17) 3	18) 1	19) 2	20) 1
21) 2	22) 2	23) 1	24) 1	25) 3	26) 1	27) 1	28) 1	29) 3	30) 4
31) 3	32) 1	33) 2	34) 3	35) 2	36) 3	37) 3	38) 1	39) 3	40) 2
41) 3	42) 4	43) 2	44) 2	45) 1	46) 4	47) 1	48) 3	49) 4	50) 1
51) 4	52) 1	53) 1	54) 1	55) 4	56) 1	57) 2	58) 1	59) 4	60) 2
61) 4	62) 3	63) 2	64) 4	65) 3	66) 1	67) 3	68) 2	69) 1	70) 3
71) 2	72) 2	73) 4	74) 2	75) 4	76) 1	77) 4	78) 1	79) 2	80) 4
81) 2	82) 1	83) 2	84) 3	85) 4	86) 2	87) 4	88) 2	89) 1	90) 3
91) 4	92) 3	93) 1	94) 2	95) 1	96) 3	97) 3	98) 3	99) 4	100) 4
101) 3	102) 3	103) 1	104) 3	105) 4	106) 1	107) 3	108) 2	109) 4	110) 2
111) 4	112) 1	113) 2	114) 3	115) 1	116) 3	117) 2	118) 4	119) 2	120) 2
121) 3	122) 4	123) 4	124) 2	125) 3	126) 1	127) 4	128) 1	129) 1	130) 4
131) 1	132) 2	133) 3	134) 4	135) 3	136) 2	137) 1	138) 4	139) 2	140) 2
141) 4	142) 3	143) 3	144) 1	145) 3	146) 1	147) 1	148) 2	149) 1	150) 3

GENERAL STUDIES CIVIL SERVICES - 2001

1. Consider the following states :
- | | |
|---------------|---------------|
| 1. Gujrat | 2. Karnataka |
| 3. Maharastra | 4. Tamil Nadu |
- The descending order of these states with reference to their level of percapita Net State Domestic Product is :
- | | |
|---------------|---------------|
| 1. 1, 3, 4, 2 | 2. 3, 1, 2, 4 |
| 3. 1, 3, 2, 4 | 4. 3, 1, 4, 2 |
2. Consider the following statements regarding the political parties in India :
1. The Representation of the People Act, 1951 provides for the registration of Political parties
 2. Regitration of Political parties is carried out by the Election Commission
 3. A national level political party is one which is recognised in four or more States
 4. During the 1999 general elections, there were six national and 48 State - level parties recognised by the Election Commission.
- Which of these Statements are correct ?
- | | |
|---------------|------------------|
| 1. 1, 2 and 4 | 2. 1 and 3 |
| 3. 2 and 4 | 4. 1, 2, 3 and 4 |
3. Match List I with List II and select the correct answer using the codes given below the lists.
- | | |
|---|------------------|
| List - I | List - II |
| (Institute) | (Location) |
| A. Central Institute of Medicinal and Aromatic Plants | 1. Chanigarh |
| B. Centre for DNA Finger Printing and Diagnostics | 2. Hyderabad |
| C. Institute of Micro bial Technology | 3. New Delhi |
| D. National Institute of Immunology | 4. Lucknow |
- Codes :
- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 2 | 4 | 1 | 3 |
| 2. | 4 | 2 | 1 | 3 |
| 3. | 2 | 4 | 3 | 1 |
| 4. | 4 | 2 | 3 | 1 |
4. Match List I with List II and select the correct answer using the codes given below the lists.
- | | |
|-------------------|------------------|
| List - I | List - II |
| (Bone) | (Name) |
| A. Breast - bone | 1. Clavicle |
| B. Collar - bone | 2. Patella |
| C. Knee-cap | 3. Scapula |
| D. Shoulder blade | 4. Sternum |
- Codes :
- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 4 | 1 | 3 | 2 |
| 2. | 1 | 4 | 3 | 2 |
| 3. | 1 | 4 | 2 | 3 |
4. 4 1 2 3
5. Which one of the following animals was NOT represented on the seals and terracotta art of the Harappan culture ?
- | | |
|---------------|-------------|
| 1. Cow | 2. Elephant |
| 3. Rhinoceros | 4. Tiger |
6. The range of Agni - II missile is around
- | | |
|------------|------------|
| 1. 500 km | 2. 2000 km |
| 3. 3500 km | 4. 5000 km |
7. Figure
- A circle of 1m radius is drawn inside a square as shown in the figure given above. What is the area of the shaded portion in m² ?
- | | | | |
|------------|--------------|----------------|------------|
| 1. (4 - π) | 2. (1 - π/2) | 3. (1/4 - π/4) | 4. (1-π/4) |
|------------|--------------|----------------|------------|
8. The approximate age of the Aravallis range is
- | | |
|----------------------|----------------------|
| 1. 370 million years | 2. 470 million years |
| 3. 570 million years | 4. 670 million years |
9. Consider the follow :
- | | |
|-------------------------------------|-------------------|
| 1. Market borrowing | 2. Treasury bills |
| 3. Special securities issued to RBI | |
- Which of these is/are component(s) of internal debt?
- | | |
|-----------|---------------|
| 1. 1 only | 2. 1 and 2 |
| 3. 2 only | 4. 1, 2 and 3 |
10. Match List I with List II and select the correct answer using the codes given below the lists.
- | | |
|-------------------------------|--|
| List - I | List - II |
| (Article of the Constitution) | (Content) |
| A. Article 54 | 1. Election of the President of India |
| B. Article 75 | 2. Appointment of the Prime Minister and Council of Ministers |
| C. Article 155 | 3. Appointment of the Governor of a state |
| D. Article 164 | 4. Appointment of the Chief Minister and Council of Ministers of a State |
5. Composition of Legislative Assemblies
- Codes :
- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 1 | 2 | 3 | 4 |
| 2. | 1 | 2 | 4 | 5 |
| 3. | 2 | 1 | 3 | 5 |
| 4. | 2 | 1 | 4 | 3 |
11. Match List I with List II and select the correct answer using the codes given below the lists.
- | | |
|-------------------------|------------------|
| List - I | List - II |
| (Important day) | (Date) |
| A. World Enviromnet Day | 1. March 20 |
| B. World Forestry Day | 2. June 5 |
| C. World Habitat Day | 3. September 16 |
| D. World Ozone Day | 4. October 3 |
5. December 10

Codes :

	A	B	C	D
1.	2	1	4	5
2.	1	2	4	3
3.	1	2	3	4
4.	2	1	4	3

12. Consider the following statements :

1. Tapeworm is a hermaphrodite
2. Round-worm has separate sexes
3. Filaria is caused by a nematode
4. Guinea - worm is an annelid

Which of these are correct ?

1. 1 and 2
2. 1, 2 and 3
3. 3 and 4
4. 2, 3 and 4

13. Hoysala monumnets are found in

1. Hampi and Hospet
2. Halebid and Belur
3. Mysore and Bangalore
4. Sringeri and Dharwar

14. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Characteristic)

A. Zero mass

B. Fractional change

C. Fractional spin

D. Integral spin

Codes :

	A	B	C	D
1.	2	3	1	4
2.	3	2	4	1
3.	2	3	4	1
4.	3	2	1	4

15. Consider the following statements regarding Reserve Bank of India

1. It is a bankar to the Central Government
2. It formulates and administers monetary policy
3. It acts an agent of the Government in respect of India's membership of IMF
4. It handles the borrowing programme of Government of India

Which of the Statements are correct

1. 1 and 2
2. 2, 3 and 4
3. 1, 2, 3 and 4
4. 3 and 4

16. Consider the following statements :

1. Most magmas are a combination of liquid, solid and gas
 2. Water vapour and carbon dioxide are the principal gases dissolved in a magma
 3. Basaltic magma is hotter than silicic magma
 4. The magma solidified between sedimentary rocks in a horizontal position is known as dike
- Which of these statements are correct ?

- a. 1, 2 and 3
- b. 2, 3 and 4
- c. 1 and 4
- d. 1, 2 and 4

17. Consider the following schemes launched by the Union Government :

1. Antyodaya Anna
 2. Gram Sadak Yojana
 3. Sarvapriya
 4. Jawahar Gram Samridhi Yojana
- Which of these were announced in the year 2000?

1. 1 and 2
2. 2 and 4
3. 3 and 4
4. 1, 2 and 3

18. Match List I with List II and select the correct

answer using the codes given below the lists.

List - I

(Books)

A. The Struggle in My life

B. The Struggle and

the Triumph

C. Friends and Foes

D. Rebirth

List - II

(Author)

1. Lech Mandela

2. Nelson Mandela

3. Leonid Brezhnev

4. Zulfikar Ali Bhutto

5. Sheikh Mujibur Reh man

Codes :

	A	B	C	D
1.	1	2	5	3
2.	2	1	5	3
3.	1	2	3	4
4.	2	1	3	4

19. Which one of the following is the correct sequence in increasing order of molecular weights if the hydro carbons ?

1. Methane, ethane, propane and butane
2. Propane, Butane, ethane and methane
3. Butane, ethane, propane and methane
4. Butane, propane, ethane and methane

20. Which organelle in the cell, other than nucleus, contains DNA ?

1. Contrirole
2. Golgi apparatus
3. Lysosome
4. Mitochondrion

21. Map

The shaded area in the above map shows the empire of :

1. Ala-ud-din Khilji
2. Mohammad Tughlaq
3. Shahjahan
4. Aurangzeb

22. Consider the following statements regarding the earthquakes :

1. The intensity of earthquake is measured on Mercallis Scale
2. The magnitude of earthquake is a measure of energy released
3. Earthquake magnitudes are based on direct measurements of the amplitude of seismic waves
4. In the Richter-Scale, each whole number demonstrates a hundredfold increase in the amount of energy released

Which of these statements are correct ?

1. 1, 2 and 3
2. 2, 3 and 4
3. 1 and 4
4. 1 and 3

23. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Achievement in Genetics)

A. Discoveries of transduction and conjugation in bacteria

B. Establishing the sex-linked inheritance

C. Isolation of DNA Polyme-
rase from E. Coli

D. Establishing the complete
genetic code

Codes :

	A	B	C	D
1.	4	3	2	1

2.	3	4	1	2
3.	4	3	1	5
4.	3	4	2	1

24. Which article of the Constitution provides that it shall be the endeavour of every State to provide adequate facility for instruction in the mother tongue at the primary state of education ?

1. Article 349
2. Article 350
3. Article 340 A
4. Article 351

25. 'Athlete's Foot' is a disease caused by :

1. Bacteria
2. Fungus
3. Protozoan
4. Nematode

26. In the eye donation, which part of the eye is transplanted from the donar ?

1. Cornea
2. Lens
3. Retina
4. The whole eye

27. Who among the following Indian rulers established embassies in foreign countries on modern lines ?

1. Haider Ali
2. Mir Qasim
3. Shah Alam II
4. Tipus Sultan

28. A great landside caused by an earthquake killed hundreds of people in january 2001 near

1. San Salvador
2. San jose
3. Managua
4. Guatemala City

29. Most guitarists are bearded malse. If A represents all males, B represents bearded males and C represents all male guitarists, then the correct diagram for their relation (shaded portion) is

1. figures

30. Map

In the above map, the black marks shows the distribution of

1. Asbestos
2. Gypsum
3. Limestone
4. Mica

31. Consider the following factors regarding an industry :

1. Capital investment
2. Business turnover
3. Labour force
4. Power consumption

32. Which of the following pairs is NOT correctly matched ?

1. India's first technicolour film - Jhansi Ki Rani
2. India's first 3-D film - My dear Kuttichathan
3. India's first insured film - Taal
4. India's first actress to win the Bharat Ratna - Meena Kumar

33. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|----------------------------|------------------|
| List - I | List - II |
| (Dancer) | (Dance) |
| A. Kalamandalam Kshemavaty | 1. Kathakali |
| B. Kottakkal Sivaraman | 2. Manipuri |
| C. Lakshmi Viswanathan | 3. Moniniattam |
| D. N. Madhabi Devi | 4. Bharatnatyam |

Codes :

- | | | | |
|---|---|---|---|
| A | B | C | D |
|---|---|---|---|

1.	1	3	2	4
2.	3	1	4	2
3.	1	3	4	2
4.	3	1	2	4

34. A man whose blood group is not known meets with a serious accident and needs blood transfusion immediately. Which one of the blood groups mentioned below and readily available in the hospital will be safe for transsfusion ?

1. O, Rh⁻
2. O, Rh⁺
3. AB, Rh⁻
4. AB, Rh⁺

35. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|-----------------|------------------|
| List - I | List - II |
| (Bhakti Saint) | (Profession) |
| A. Namdev | 1. Barber |
| B. Kabir | 2. Weaver |
| C. Ravidas | 3. Tailor |
| D. Sena | 4. Cobbler |

Codes :

	A	B	C	D
1.	2	3	1	4
2.	3	2	4	1
3.	3	2	1	4
4.	2	3	4	1

36. Cloudy nights are warmer compared to clear cloudless nights, because clouds :

1. Prevent cold waves from the sky from descending on earth
2. Reflect back the heat given off by earth
3. Produce heat and radiate it towards earth
4. Absorb heat from the atmosphere and send it towards earth

37. Which one of the following weather conditions is indicated by a sudden fall in barometer reading?

1. Stormy weather
2. Calm weather
3. Cold and dry weather
4. Hot and sunny weather

38. Figure

In the above figure, ABCD is a cyclic quadrilateral, AB = BC and $\angle BAC = 70^\circ$, then $\angle ADC$ is

1. 40°
2. 80°
3. 110°
4. 140°

39. The most approximate measure of a country's economic growth is its :

1. Gross Domestic Product
2. Net Domestic Product
3. Net National Product
4. Per capita Real Income

40. The Supreme Court of India tender advice to the President on a matter of law or fact :

1. On its own initiative
2. Only if he seeks such advice
3. Only if the matter relates to the Fundamental Rights of citizens
4. Only if the issue poses a threat to the unity and integrity of the country

41. Falun Gong is :

1. An ethnic minority in Eastern China
2. An insurgency outfit in western China
3. A pro-democracy movement in China
4. A spiritual movement in China

42. 'Metastasis' is the process by which :
1. Cells divide rapidly under the influence of drugs
 2. Cancer cells spread through the blood or lymphatic system to other sites or organs
 3. The chromosomes in cell nuclei are attached to the spindle before moving to the anaphase poles
 4. Cancer cells are successfully inhibited to divide any further

43. The Hunter Commission was appointed after the
1. Balch-hole incident
 2. Jallian walabagh massacre
 3. Uprising of 1857
 4. Partition of Bengal

44. Who is the Scientist in whose honour the 'Chandra' X-ray telescope has been named ?
1. Chandrasekhar Venkat Raman
 2. Jagadish Chandra Bose
 3. Prafulla Chandra Roy
 4. Subramanyam Chandrasekhar

45. The mass of a body on earth is 100 kg (acceleration due to gravity, $g_e = 10\text{m/s}^2$). If acceleration due to gravity on the moon is : ($g_m/6$), then the mass of the body on the moon is
1. $10/6$ kg
 2. 60 kg
 3. 100 kg
 4. 600 kg

46. Who amongst the following was the first to state that earth was spherical ?
1. Aristotle
 2. Copernicus
 3. Ptolemy
 4. Strabo

47. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Term)	List - II (Explanation)
A. Fiscal deficit	1. Excess of Total Expenditure over Total Receipts
B. Budget deficit	2. Excess of Revenue Expenditure over Revenue Receipts
C. Revenue deficit	3. Excess of Total Expenditure over Total Receipts
D. Primary deficit	4. Excess of Total Expenditure less borrowings and Payments

Codes :

	A	B	C	D
1.	3	1	2	4
2.	4	3	2	1
3.	1	3	2	4
4.	3	1	4	2

48. Consider the following organisations :
1. International Bank for Reconstruction and Development
 2. International Finance Corporation
 3. International Fund for Agricultural Development
 4. International Monetary Fund
- Which of these are agencies of the UN ?
1. 1 and 2
 2. 2 and 3
 3. 3 and 4
 4. 1, 2, 3 and 4

49. In an atom, the order of filling up of the orbitals is governed by :
1. Aufbau principle

2. Heisenberg's uncertainty principle
3. Hund's rule
4. Pauli's exclusion principle

50. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Persons)	List - II (Achievement)
A. Deep Sen Gupta	1. India's youngest International Master in the Sangli International Chess Tournament, 2000
B. P. Harikrishna	2. The first Indian ever to win a gold in discus in the World Junior Athletic Championship in Santiago, 2000
C. Seema Antil	3. Won the title in the Asian Junior Chess Tournament in Mumbai, 2000
D. Tejas Bakre	4. Won the under-12 title in the world youth Chess Festival in Oropesa, 2000

Codes :

	A	B	C	D
1.	4	3	2	1
2.	2	4	1	3
3.	4	1	2	3
4.	2	1	3	4

51. Under the Permanent Settlement, 1793, the zamindars were required to issue pattas to the farmers which were not issued by many of the zamindars. The reason was :

1. The zamindars were trusted by the farmers
2. There was no official check upon the zamindars
3. It was the responsibility of the British government
4. The farmers were not interested in getting pattas

52. If the stars are seen to rise perpendicular to the horizon by an observer, he is located on the :

1. Equator
2. Tropic of Cancer
3. South Pole
4. North Pole

53. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Person)	List - II (Distinguished as)
A. Santhosh Yadav	1. T.V. host
B. Oprah Winfrey	2. Journalist
C. Oscar Wilde	3. Mountaineer
D. P. Sainath	4. Dramatist and Author

Codes :

	A	B	C	D
1.	3	1	4	2
2.	1	3	2	4
3.	3	1	2	4
4.	1	3	4	2

- 54.

Map

In the shaded area of the above map, the mean temperature for the month of July varies between:

1. 22.5°C - 25.0°C
2. 25.0°C - 27.5°C
3. 27.5°C - 30.0°C
4. 30.0°C - 32.5°C

55. The Union Budget 2000 awarded a Tax Holiday for the North-Eastern Region to promote industrialisation for :

1. 5 years 2. 7 years 3. 9 years 4. 10 years

56. Consider the following statements :

1. Arya Samaj was founded in 1835
2. Lal Lajpat Rai opposed the appeal of Arya Samaj to the authority of Vedas in support of its social reform programmes
3. Under Keshab Chandra Sen, the Brahma Samaj campaigned for women's education
4. Vinoba Bhave founded the Sarvodaya Samaj to work among refugees

Which of these statements are correct

1. 1 and 2 2. 2 and 3 3. 2 and 4 4. 3 and 4

57. An aqueous solution of copper sulphate is acidic in nature because the salt undergoes :

1. Dialysis 2. Electrolysis
3. Hydrolysis 4. Photolysis

58. Consider the following taxes :

1. Corporation tax 2. Customs duty
3. Wealth tax 4. Excise duty

Which of these is/are indirect taxes ?

1. 1 only 2. 2 and 4
3. 1 and 3 4. 2 and 3

59. The Mongols under Chengis Khan invaded India during the reign of :

1. Balban 2. Feroz Tuglaq
3. Illutmish 4. Muhammad bin Tuglaq

60. Consider the following Statements :

1. The acceleration is zero when the bob passes through the mean position
 2. In each cycle the bob attains a given velocity twice
 3. Both acceleration and velocity of the bob are zero when it reaches its extreme position during its oscillation
 4. The amplitude of oscillation of the simple pendulum decrease with time
- which of these statements are correct ?

1. 1 and 2 2. 3 and 4
3. 1, 2 and 4 4. 2, 3 and 4

61. Anand must be a vegetarian because he is a Buddhist

The argument assumes that :

1. Most Buddhists are Vegetarians
2. All Buddhists are vegetarians
3. Only Buddhists are vegetarians
4. Most vegetarians are Buddhists

62. The high density of population in Nile Valley and Island of Java is primarily due to :

1. Intensive agriculture 2. Industrialisation
3. Urbanisation 4. Topographic constraints

63. The largest share of Foreign Direct Investment (1997 - 2000) went to :

1. Food and food-product sector
2. Engineering sector
3. Electronics and electrical equipment sector
4. Services sector

64. Which one of the following duties is NOT per-

formed by the Comptroller and Auditor General of India ?

1. To audit and report on all expenditure from the Consolidated Fund of India
2. To audit and report on all expenditure from the Contingency Funds and Public Accounts
3. To audit and report on all trading, manufacturing, profit and loss accounts
4. To control the receipt and issue of public money, and to ensure that the public revenue is lodged in the exchequer

65. Consider the following statements with reference to the Periodic Table of chemical elements :

1. Ionisation potential gradually decreases along a period
2. In a group of elements, electron affinity decreases as the atomic weight increases
3. In a given period, electronegativity decreases as the atomic number increases

Which of these statements(s) is/are correct ?

1. 1 only 2. 2 only 3. 1 and 3 4. 2 and 3

66. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Sunstance)

A. Ptyalin

B. Pepsin

C. Renin

D. Oxytocin

List - II

(Physiological role)

1. Converts angiotensinogen in blood into angiotensin

2. Digest starch

3. Digests proteins

4. Hydrolyses fats

5. Induces contraction of smooth muscles

Codes :

	A	B	C	D
1.	2	3	1	5
2.	3	4	2	5
3.	2	3	5	1
4.	3	1	2	4

67. Which one of the following pairs is incorrectly matched ?

1. Harappan Civilization - Painted Grey Ware
2. The Kushans - Gandhara School of Art
3. The Mughals - Ajanta Paintings
4. The Marathas - Pahari School of Painting

68. A radioactive substance has a half-life of four months. Three-fourth of the substance would decay in

1. 3 months 2. 4 months
3. 8 months 4. 12 months

69. The following table shows the percentage change in the consumption of electricity by five towns P, Q, R, S, T from 1986 - 1988

Town	Percent change	
	From	From
	1986 to 1987	1987 to 1988
P	+8	-18
Q	-15	+11
R	+6	+9
S	-7	-5
T	+13	-6

If town T consumed 500,000 units in 1986, how much did it consume in 1988 ?

1. 371,000 units
2. 531,100 units
3. 551,100 units
4. 571,100 units

70. Consider the following statements made about the Sedimentary rocks :

1. Sedimentary rocks are formed at earth's surface by the hydrological system
 2. The formation of sedimentary rocks involves the weathering of pre-existing rocks
 3. Sedimentary rocks contain fossils
 4. Sedimentary rocks typically occur in layers
- Which of these statements are correct ?

1. 1 and 2
2. 1 and 4
3. 2, 3 and 4
4. 1, 2, 3 and 4

71. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Publisher)	List - II (Publication)
A. Ministry of Industry	1. Report on Currency and Finance
B. Central Statistical Organisation	2. Economic Survey
C. Reserve Bank of India	3. Wholesale Price Index
D. Ministry of Finance	4. National Accounts Statistics

Codes :

	A	B	C	D
1.	4	3	2	1
2.	3	4	1	2
3.	4	3	1	2
4.	3	4	2	1

72. Which of the following distance - time graph (x-t) represents one-dimensional uniform motion ?

1. Figures

73. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Award/Prize)	List - II (Recipient)
A. Indira Gandhi Prize for peace, Disarnament and Development	1. Archbishop Desmond Tutu
B. Jannalal Bajaj Award	2. Dr. Gurudev Khush
C. International Gandhi Peace prize	3. Dr. M.S. Swaminathan
D. Wolf Prize	4. Nelson Mandela

Codes :

	A	B	C	D
1.	1	3	4	2
2.	3	1	4	2
3.	1	3	2	4
4.	3	1	2	4

74. Which one of the following statements correctly describes the Fourth Schedule of the Constitution of India ?

1. It lists the distribution of powers between the Union

and the States

2. It contains the languages listed in the Constitution
3. It contains the provisions regarding the administration of tribal areas
4. It allocates seats in the Council of States

75. Epiphytes are plants which depend on other plants for

1. Food
2. Mechanical support
3. Shade
4. Water

76. Which among the following ports was called Babul Makka (Gate of Makka) during the Mughal period ?

1. Calicut
2. Broach
3. Cambay
4. Surat

77. A person travels from X to Y at a speed of 40 kmph and returns by increasing his speed by 50%. What is his average speed for both the trips ?

1. 36 kmph
2. 45 kmph
3. 48 kmph
4. 50 kmph

78. Volcanic eruptions do not occur in the

1. Baltic Sea
2. Black Sea
3. Caribbean Sea
4. Caspian Sea

79. Who among the following leaders proposed to adopt complete Independence as the goal of the Congress in the Ahmedabad session of 1920 ?

1. Abul Kalam Azad
2. Hasrat Mohani
3. Jawahar Lal Nehru
4. Mohandas Karamchand Gandhi

80. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Sports women)	List - II (Sport)
A. Anjali Vedpathak	1. Athletics
B. Mouma Das	2. Gymnastics
C. Neelam Singh	3. Rifle Shooting
D. Tumpa Debnath	4. Table Tennis
	5. Chess

Codes :

	A	B	C	D
1.	3	4	2	5
2.	4	3	1	2
3.	4	3	2	5
4.	3	4	1	2

81. A class of animals known as Marsupilas is a characteristic feature of :

1. Africa
2. Australia
3. South America
4. South-east-Asia

82. The location of the space organisation units have been marked in the given map as 1, 2, 3 and 4. Match these units with the list given below and select the correct answer using the codes given below the list

List :

	Map
A. I.S.R.O	B. I.I.R.S
C. N.R.S.A.	D. S.A.C

Codes :

	A	B	C	D
1.	4	1	2	3
2.	1	4	3	2

3. 1 4 2 3
4. 4 1 3 2
83. Which of the following pairs is correctly matched?
1. Dewan-i-bandagani - Firoz Tuglaq
2. Dewan-i-Mustakhraj - Balban
3. Dewan-i-kohi - Allauddin Khilji
4. Dewan-i-Arz - Muhammad Tuglaq
84. Quartzite is metamorphosed from :
1. Limestone 2. Obsidian
3. Sandstone 4. Shale
85. The earlier name of WTO was :
1. UNCTAD 2. GATT
3. UNIDO 4. OECD
86. In what way does the Indian Parliament exercise control over the administration ?
1. Through Parliamentary Committees
2. Through Consultative Committees of various ministries
3. By making the administrators send periodic reports
4. By compelling the executive to issue writs
87. Antigen is a substance which :
1. Destroys harmful bacteria
2. Is used to treat poisoning
3. Lowers body - temperature
4. Stimulates formation of antibody
88. Who among the following organised the famous Chittagong armoury raid ?
1. Laxmi Sehgal 2. Surya Sen
3. Batukeshwar Datta 4. J.M.Sengupta
89. Solve the given equations.
 $x^2 + y^2 = 34$
 $x^4 - y^4 = 544$
The values of x and y are
1. $\pm 4, \pm 3$ 2. $\pm 5, \pm 3$ 3. $\pm 3, \pm 5$ 4. $\pm 3, \pm 4$
90. Consider the decadal census data given below :
Decadal population (in millions)
- | Year | Population |
|------|------------|
| 1961 | 10.7 |
| 1971 | 14.3 |
| 1981 | 16.2 |
| 1991 | 18.9 |
- The above data refer to which one of the 'population by religion' groups ?
1. Sikhs 2. Jains
3. Christians 4. Buddhists
91. Which of the following committees examined and suggested Financial Sector reforms ?
1. Abid Hussain Committee
2. Bhagwati Committee 3. Chelliah Committee
4. Narasimham Committee
92. In which one of the following cities is the Lingggaraja Temple located ?
1. Bhubaneswar 2. Bijapur
3. Kolkata 4. Shravanabelagola
93. A worker reaches his factory 3 minutes late if his speed from his house to the factory is 5 km/hr. If he walks at a speed of 6 km/hr, then he reaches the factory 7 minutes early. The distance of the factory from his house is :
1. 4km 2. 5km 3. 6km 4. 7km
94. A London branch of the All India Muslim League was established in 1908 under the presidency of :
1. Aga Khan 2. Ameer Ali
3. Liaquat Ali Khan 4. M.A. Jinnah
95. Which of the following features of DNA makes it uniquely suited to store and transmit genetic information from generation to generation ?
1. Complementarity of the two strands
2. Double helix
3. Number of base-pairs per turn
4. Sugar - phosphate backbone
96. Two wires have their lengths, diameters and resistivities, all in the ratio of 1 : 2. If the resistance of the thinner wire is 10 ohms, the resistance of the thicker wire is :
1. 50 ohms 2. 10 ohms 3. 20 ohms 4. 40 ohms
97. Map
The above map is the Union Territory of :
1. Chandigarh 2. Daman and Diu
3. Dadra and Nagar Haveli 4. Pondicherry
98. Identify the correct order of the processes of soil-erosion from the following :
1. Splash erosion, sheet erosion, Rill erosion, Gully erosion
2. Sheet erosion, Splash erosion, Gully erosion, Rill erosion
3. Rill erosion, gully erosion, Sheet erosion, Splash erosion
4. Gully erosion, Rill erosion, Sheet erosion, Splash erosion
99. The new series of wholesale price index (WPI) released by the Government of India is with reference to the base prices of
1. 1981-82 2. 1990-91
3. 1993-94 4. 1994-95
100. The chess player Alexi Shirov represents
1. Albania 2. Kazakhstan
3. Russia 4. Spain
101. Consider the following organisations :
a. Atomic Minerals Directorate for Research and Exploration
b. Heavy Water Board
c. Indian Rare Earths Limited
d. Uranium Corporation of India
Which of these is/are under the department of Atomic Energy ?
1. a only 2. a and d
3. b, c and d 4. a, b, c and d
102. Who among the following, was the President of the All-India States 'Peoples' conference in 1939?
1. Jaya Prakash Narayan 2. Jawahar Lal Nehru
3. Sheikh Abdullah 4. Sardar Vallabhai patel
103. Consider the following statements about the minorities in India :
a. The Government of India has notified five communities namely, Muslims, Sikhs, Christians, Buddhists and Zoroastrians as Minorities.
b. The National Commission for minorities was given statutory status in 1933

c. The smallest religious minority in India are the Zorastrians

d. The constitution of India recognizes and protects religious and linguistic minorities

Which of these statements are correct ?

1. b and c
2. a and d
3. b, c and d
4. a, b and d

104. The temperature and rainfall of meteorological station are given below :

	J	F	M	A	M	J
Temperature(°C)	9.4	10.6	11.7	12.2	13.3	13.9
Rainfall(CM)	12.2	9.1	7.9	2.5	1.8	0.3

	J	A	S	O	N	D
Temperature(°C)	13.9	14.4	15.6	15.0	13.3	10.6
Rainfall(CM)	-	-	0.8	2.5	6.1	11.7

Average Temperature : 12.8°C

Average Rainfall : 54.9 cm per annum

Identify the region having the above climatic pattern from amongst the following :

1. Mediterranean
2. Monsoon region
3. Steppe region
4. N.W. European region

105. The theme of the World Development Report, 2001 is :

1. From plan to market
2. knowledge for development
3. Attacking poverty
4. The state in the changing world

106. Which of the following cell organelles play the most significant role in protein synthesis ?

1. Lysosome and Centrosome
2. Endoplasmic reticulum and Ribosome
3. Golgi apparatus and Mitochondria
4. Lysosome and Mitochondria

107. In which one of the following areas does the state government NOT have control over its local bodies ?

1. Citizen's grievances
2. Financial matters
3. Legislation
4. Personnel matters

108. A conveyer belt delivers baggage at the rate of 3 tons in 5 minutes, and a second conveyer belt delivers baggage at the rate of 1 ton in 2 minutes. How much time will it take to get 33 tons of baggage delivered using both the conveyer belts ?

1. 25 minutes and 30 seconds
2. 30 minutes
3. 35 minutes
4. 40 minutes and 45 seconds

109. Who amongst the following Englishmen, first translated Bhagavad Gita into English ?

1. William Jones
2. Charles Wilkins
3. Alexander Cunningham
4. John Marshall

110. Consider the following statements regarding the High courts in India :

- a. There are eighteen High courts in the country
- b. Three of them have jurisdiction over more than one state
- c. No union territory has a High Court of its own
- d. Judges of the High Court hold office till the age of 62

Which of these statements is/are correct ?

1. a, b and d
2. b and c

3. a and d

4. d only

111. The term National income represents :

1. Gross national product at market prices *minus* depreciation
2. Gross national product at market prices *minus* depreciation plus net factor income from abroad
3. Gross national product at market prices *minus* depreciation and indirect taxes plus subsidies
4. Gross national product at market prices *minus* net factor income from abroad

112. Match list I with list II and select the correct answer using the codes given below the lists :

List I	List II
(Local Wind)	(Region)
A. Fohn	1. Argentina
B. Samun	2. Kurdistan
C. Santa Ana	3. California
D. Zonda	4. Alps

Codes :

	A	B	C	D
1.	2	4	1	3
2.	4	2	3	1
3.	2	4	3	1
4.	4	2	1	3

113. The given map shows four towns of Central Asian region marked as 1, 2, 3 and 4. Identify these from the following list and select the correct answer using the codes given below :

Towns : A. Bishkek B. Ashkhabad
C. Tashkent D. Dushanbe

Codes :

	A	B	C	D
1.	3	1	2	4
2.	3	1	4	2
3.	1	3	2	4
4.	1	3	4	2

114. Mekong Ganga co-operation project is :

1. An irrigation project involving India and Myanmar
2. A joint tourism initiative of some Asian countries
3. A hydroelectric power project involving India, Bangladesh and Myanmar
4. A defence and security agreement of India with its eastern neighbours

115. Match list I with list II and select the correct answer using the codes given below the lists :

List I	List II
(Amendments to the Constitution)	(Contents)
A. The Constitution (Sixty-ninth amendment) Act, 1991	1. Establishment of state level rent tribunals
B. The Constitution (Seventy-fifth amendment) Act, 1994	2. No reservations for schedule castes in Panchayats in Arunachal Pradesh
C. The Constitution (Eightieth amendment) Act, 2000	3. Constitution of Panchayats in villages or at other local levels
D. The Constitution (Eighty-third amendment) Act, 2000	4. According to the status of National Capital Territory of Delhi

Codes :

	A	B	C	D
1.	5	1	4	2
2.	1	5	3	4
3.	5	1	3	4
4.	1	5	4	2

116. Water is filled in a container in such a manner that its volume doubles after every five minutes. If it takes 30 minutes for the container to be full, in how much time will it be one-fourth full ?

1. 7 minutes and 30 seconds
2. 10 minutes
3. 20 minutes
4. 25 minutes

117. The largest number of Buddhist is found in :

1. Bihar
2. Karnataka
3. Maharastra
4. Uttar pradesh

118. Who amongst the following was the Chairman of I.S.R.O. when INSAT-3B was launched ?

1. Anil Kakadkar
2. Abdul Kalam
3. K.Kasturirangam
4. U.R.Rao

Directions : The following 12 (twelve) items consist of two statements, one labelled as the 'Assertion A' and other as 'Reason R'. You are to examine these two statements carefully and decide if the 'Assertion A' and the 'Reason R' are individually true and if so, whether the 'Reason R' is the correct explanation for the given 'Assertion A'. Select your answers to these items using the codes given below and mark your answer sheet accordingly :

Codes :

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are individually true but R is NOT the correct explanation of A
3. A is true but R is false
4. A is false but R is true

119. Assertion (A) : The Battle of Khanua was certainly more decisive and significant than the first Battle of Panipat

Reason (R) : Rana Sanga, the Rajput hero, was certainly a more formidable adversary than Ibrahim Lodi

120. Assertion (A) : Anticyclonic conditions are formed in winter season when atmospheric pressure is high and air temperatures are low

Reason (R) : Winter rainfall in Northern India causes development of anticyclonic conditions with low temperatures

121. Assertion (A) : Harshavardhana convened the Prayag Assembly

Reason (R) : He wanted to popularise only the Mahayana form of Buddhism

122. Assertion (A) : A stick is dipped in water in a slanting position. If observed sideways, the stick appears short and bent at the surface of water

Reason (R) : The light coming from the stick undergoes scattering from water molecules giving the stick a short and bent appearances

123. Assertion (A) : There was an increase in industrial production during 1999-2000

Reason (R) : The period witnessed a stable exchange

rate and improved business sentiments

124. Assertion (A) : A piece of copper and a piece of glass are heated to the same temperature. When touched, thereafter, the copper piece appears hotter than the glass piece

Reason (R) : The density of copper is more than that of glass

125. Assertion (A) : India's software exports increased at an average growth rate of 50% since 1995-96

Reason (R) : Indian software companies were cost effective and maintained international quality

126. Assertion (A) : A chemical reaction becomes faster at higher temperatures

Reason (R) : At higher temperatures, molecular motion becomes more rapid

127. Assertion (A) : Ceiling on foreign exchange for a host of current account transaction heads was lowered in the year 2000.

Reason (R) : There was a fall in foreign currency assets also

128. Assertion (A) : The boiling point of water decreases as the altitude increases

Reason (R) : The atmospheric pressure increases with altitude

129. Assertion (A) : Scientists can cut apart and paste together DNA molecules at will, regardless of the source of the molecules.

Reason (R) : DNA fragments can be manipulated using restriction endonucleases and DNA ligases.

130. Assertion (A) : During the Neap Tides, the high tide is lower and the low tide is higher than usual

Reason (R) : The Neap Tide, unlike the spring tide, occurs on the new moon instead of on the full moon.

131. The prices at which the government purchases food grains for maintaining the public distribution system and for building up buffer stocks is known as :

1. Minimum support prices
2. Procurement prices
3. Issue Prices
4. Ceiling prices

132. The theme of Indian science congress, 2001 was :

1. 'Food nutrition and environmental security'
2. 'Arrest declining interest in pure sciences'
3. 'Make India energy self-sufficient'
4. 'Make India I.T. superpower'

133. A city has a population of 3,00,000 out of which 1,80,000 are males. 50% of the population is literate. If 70% of the males are literate, the number of literate females is :

1. 24,000
2. 30,000
3. 54,000
4. 60,000

134. Consider the following statements regarding environmental issue of India :

A. Gulf of Mannar is one of the biosphere reserves
B. The Ganga action plan, phase II has been merged with the National River Conservation plan

C. The National Museum of Natural History at New Delhi imparts non-formal education in environment and conservation

D. Environmental information system (ENVIS)

acts as decentralised information network for environmental information

Which of these statements are correct ?

1. 1, 2 and 3
2. 1, 2, 3 and 4
3. 2 and 3
4. 1, 3 and 4

135. Which one of the following is NOT radio active?

1. Astatine
2. Francium
3. Tritium
4. Zirconium

136. The American multinational company Monsanto has produced an insect-resistant cotton variety that is undergoing field - trials in India. A toxin gene from which ONE of the following bacteria has been transferred to this transgenic cotton ?

1. Bacillus subtilis
2. Bacillus thuringiensis
3. Bacillus amyloliquifaciens
4. Bacillus globlii

137. Which one of the Chola kings conquered Ceylon?

1. Aditya I
2. Rajaraja I
3. Rajendra
4. Vijayalaya

138. When lightwaves pass from air to glass, the variable affected are :

1. Wavelength, frequency and velocity
2. Velocity and frequency
3. Wavelength and frequency
4. Wavelength and Velocity

139. In a survey, it was found that 80% of those surveyed owned a car while 60% of those surveyed owned a mobile phone. If 55% owned both a car and a mobile phone, what surveyed owned a car or a mobile phone or both ?

1. 65%
2. 80%
3. 85%
4. 97.5%

140. Consider the following statements regarding the Armed forces :

1. First batch of women pilots was commissioned in Indian Air Force in 1996
2. Officer's Training Academy is located in Nagpur.
3. Southern Command of Indian Navy has its headquarters at Chennai
4. One of the Regional Headquarters of Coast Guard is located at Port Blair

which of these statements are correct ?

1. 1, 2, 3 and 4
2. 2, 3 and 4
3. 3 only
4. 4 only

141. Consider the following statements regarding power sector in India :

- a. The installed capacity of power generation is around 95000 MW
- b. Nuclear plants contribute nearly 40% of total power generation
- c. Hydroelectricity plants contribute nearly 40% of total power generation
- d. Thermal plants at present account for nearly 80% of total power generation

Which of these statements is/are correct ?

1. a only
2. b and c
3. c and d
4. a and d

142. If a new state of the Indian Union is to be created, which one of the following schedules of the Constitution must be amended ?

1. First
2. Second

3. Third
4. Fifth

143. When water is heated from 0°C to 10°C, its volume :

1. Increases
2. Decreases
3. Does not change
4. First decreases and then increases

144. The cellular and molecular control of programmed cell death is known as :

1. Apoptosis
2. Ageing
3. Degeneration
4. Necrosis

145. National Agricultural Insurance Scheme replacing Comprehensive Crop Insurance Scheme was introduced in the year :

1. 1997
2. 1998
3. 1999
4. 2000

146. Who among the following presided over the Buddhist Council held during the reign of Kanishka at Kashmir ?

1. Parsva
2. Nagarjuna
3. Sudraka
4. Vasumitra

147. Consider the following statements :

In a nuclear reactor, self-sustained chain reaction is possible, because

- a. More neutrons are released in each of the fission reactions
- b. The neutrons immediately take part in the fission process
- c. The fast neutrons are slowed down by Graphite
- d. Every neutron released in the fission reaction initiates further fission.

Which of these statements are correct ?

1. a, b and c
2. a and c
3. b and d
4. b, c and d

148. In 1930, a person's age was 8 times that of his son. In 1938, the father's age became ten times that of his son's age in 1930. The ages of the son and father in 1940 were, respectively

1. 16 years, 58 years
2. 15 years, 50 years
3. 14 years, 42 years
4. 13 years, 34 years

149. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Country)

- a. Columbia
- b. Philippines
- c. Mexico
- d. Venezuela

List - II

(President)

1. Vicente Fox
2. Hugo Chavez
3. Gloria Macapagal Arroya
4. Andres Pastranak

Codes :

	A	B	C	D
1.	4	3	2	1
2.	3	4	2	1
3.	4	3	1	2
4.	3	4	1	2

150. figure

The annual agricultural production of a product for the period 1991-92 to 1998-99 is shown in the figure given above. Which one of the following is the product in questions ?

1. Pulses
2. Wheat
3. Oilseeds
4. Rice

ANSWERS

1) 4	2) 4	3) 2	4) 4	5) 1	6) 2	7) 4	8) 2	9) 4	10) 1
11) 4	12) 2	13) 2	14) 1	15) 3	16) 1	17) 1	18) 3	19) 1	20) 4
21) 3	22) 1	23) 4	24) 2	25) 2	26) 1	27) 4	28) 1	29) 1	30) 3
31) 2	32) 4	33) 2	34) 1	35) 2	36) 2	37) 1	38) 4	39) 4	40) 2
41) 4	42) 2	43) 2	44) 4	45) 3	46) 3	47) 1	48) 4	49) 4	50) 3
51) 3	52) 1	53) 1	54) 2	55) 2	56) 4	57) 3	58) 2	59) 3	60) 3
61) 2	62) 1	63) 4	64) 3	65) 2	66) 1	67) 2	68) 3	69) 2	70) 4
71) 2	72) 4	73) 2	74) 4	75) 2	76) 4	77) 3	78) 1	79) 4	80) 4
81) 2	82) 3	83) 1	84) 3	85) 2	86) 3	87) 4	88) 2	89) 2	90) 3
91) 4	92) 1	93) 2	94) 2	95) 1	96) 1	97) 3	98) 1	99) 3	100) 3
101) 4	102) 2	103) 3	104) 4	105) 3	106) 2	107) 4	108) 2	109) 2	110) 4
111) 2	112) 2	113) 1	114) 2	115) 1	116) 3	117) 3	118) 3	119) 1	120) 2
121) 3	122) 3	123) 3	124) 3	125) 1	126) 1	127) 3	128) 3	129) 1	130) 3
131) 3	132) 1	133) 1	134) 2	135) 1	136) 2	137) 3	138) 4	139) 3	140) 4
141) 4	142) 1	143) 1	144) 4	145) 1	146) 4	147) 3	148) 2	149) 3	150) 4

GENERAL STUDIES CIVIL SERVICES - 2000

1. Match List I (books) with List II (authors) and select the correct answer using the codes given below the lists.

List - I

- A. My Music
B. Adha Gaon
C. Radha
D. The Pilferer

List - II

1. Laxman Gaikwad
2. Rahi Masoom Raza
3. Ramakanta Rath
4. Ravi Shankar

Codes :

	A	B	C	D
1.	3	2	4	1
2.	4	2	3	1
3.	4	1	3	2
4.	3	1	4	2

2. Examine the following relationships among members of a family of six persons A, B, C, D, E and F.

1. The number of males equals that of females
2. A and E are sons of F
3. D is the mother of two, one boy and one girl
4. B is the son of A
5. There is only one married couple in the family at present

Which one of the following inferences can be drawn from the above ?

- a. A, B and C are the females
- b. A is the husband of D
- c. E and F are children of D
- d. D is the grand daughter of F

3. Which one of the following is known as the "Coffee port" of the world ?

1. Sao Paulo
2. Santos
3. Rio de Janeiro
4. Buenos Aires

4. Resurgent India bonds were issued in US dollar, Pound Sterling and

1. Japanese Yen
2. Deutsche Mark
3. Euro
4. French Franc

5. The given diagram shows the number of students who failed in an examination comprising papers in English, Hindi and Mathematics. The total number of students who took the test is 500. What is the percentage of students who failed in atleast two subjects ?

Figure

1. 6.8 2. 7.8 3. 34 4. 39

6. At which one of the cities labelled as A, B, C and D on the given map of Europe was the historic treaty between NATO and Warsaw Pact countries signed in 1998 ?

Map

1. A 2. B 3. C 4. D

7. Match List I (Power generation plant) with List II (feed material) and select the correct answer using the codes given below the lists.

List - I

- A. M/s Gowthami Solvents Oil Limited
B. M/s K.M. Sugar Mills, UttarPradesh
C. M/s Satia Paper Mills, Pubjab
D. M/s Alkabeer Exports Limited Andhra Pradesh

List - II

1. Rice husk
2. Slaughter house Waste
3. Distillery spent Wash
4. Black liquor

Codes :

	A	B	C	D
1.	3	1	2	4
2.	3	1	4	2
3.	1	3	4	2
4.	1	3	2	4

8. In a certain code, MARCH is written as OCTEJ, how is RETURN written in that code ?

1. TFUVSM
2. QGSTQM
3. TGVWTP
4. TGRVSO

9. The given map refers to the kingdom of

Map

1. Akbar at the time of capture of Khandesh in 1601
2. Akbar at the time of his death in 1605
3. Aurangzeb at the time of capture of Hyderabad
4. Aurangzeb at the time of his death in 1707

10. The sensation of fatigue in the muscles after prolonged strenuous physical work is caused by

1. A decrease in the supply of oxygen
2. Minor wear and tear of muscle fibres
3. The depletion of glucose
4. The accumulation of lactic acid

11. Consider the following events :

1. Reign of Krishna Deva Raya of Vijayanagar
2. Construction of Qutab Minar
3. Arrival of Portugese in India
4. The accumulation of lactic acid

The correct chronological sequence of these events is :

1. 2, 4, 3, 1
2. 2, 4, 1, 3
3. 4, 2, 1, 3
4. 4, 2, 3, 1

12. A, B, C, D, E and F not necessarily in that order are sitting in six chairs regularly placed around a round table. It is observed that :

A is between D and F

C is opposite D

D and E are not on neighbouring chairs which one of the following must be true ?

1. A is opposite B
2. D is opposite E
3. C and B are neighbours
4. B and E are neighbours

13. The given map shows locations of airports labelled as 1, 2, 3, 4 and 5. What is the correct sequence of the airports in which the hijacked Indian Airlines plane IC-814 landed after its initial take off from

Kathmandu in December 1999 ?

Map

1. 3, 1, 2, 4 2. 2, 4, 1, 3
3. 5, 4, 2, 3 4. 5, 1, 3, 2

14. Consider the following statements :

The Ministerial meeting of WTO held in December 1999 was unsuccessful because it attempted to link trade with

1. labour related issues
2. environment related issues
3. terrorism related issues
4. debt related issues

which of these statements are correct answer the using the codes given below the lists.

1. 1, 3 and 4 2. 1 and 2
3. 2 and 3 4. 2 and 4

15. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Artists)

- A. Balamurali Krishna
B. Mita Pandit
C. Kanyakumari
D. Nikhil Bannerjee

List - II

(Mediums of Music delivery)

1. Hindustani vocal
2. Ghatam
3. Sitar
4. Violin
5. Carnatic vocal

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 5 | 1 | 2 | 3 |
| 2. | 4 | 3 | 1 | 2 |
| 3. | 3 | 1 | 5 | 2 |
| 4. | 5 | 4 | 1 | 3 |

16. Aluminium surfaces are often 'anodised', This means the deposition of a layer of

1. Chromium oxide
2. Aluminium oxide
3. Nickel oxide
4. Zinc oxide

17. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

- A. Iqta
B. Jagir
C. Amaram
D. Mokasa

List - II

1. Marathas
2. Delhi Sultans
3. Mughals
4. Vijayanagara

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 3 | 2 | 1 | 4 |
| 2. | 2 | 3 | 4 | 1 |
| 3. | 2 | 3 | 1 | 4 |
| 4. | 3 | 2 | 4 | 1 |

18. Consider the following statements about the 'Roaring Forties'.

1. They blow uninterrupted in the northern and southern hemispheres
2. They blow with great strength and constancy
3. Their direction is generally from north-west to east in the southern hemisphere
4. Overcast skies, rain and raw weather are generally associated with them

Which of these statements are correct ?

1. 1, 2 and 3 2. 2, 3 and 4

3. 1, 3 and 4 4. 1, 2 and 4

19. In a class there are 18 boys who are over 160 cm tall. If these boys constitute three fourths of the boys and the total number of boys is two-third of the number of girls in the class ?

1. 6 2. 12 3. 18 4. 24

20. A college student desires to get elected to the Municipality Council of his city. The validity of his nomination would depend on the important condition, among others, that

1. He obtains permission from the Principle of his college
2. He is member of a political party
3. His name figures in the voter's list
4. He files a declaration owing allegiance to the Constitution of India

21. Consider the following provinces of former Yugoslavia

1. Bosnia
2. Croatia
3. Slovenia
4. Yugoslavia

The Correct sequence of these provinces from the east to the west is :

1. 4, 1, 3, 2 2. 4, 1, 2, 3
3. 1, 4, 3, 2 4. 1, 4, 2, 3

22. Consider the following statements :

Hard water is not suitable for

1. Drinking
2. Washing clothes with soap
3. use in boilers
4. Irrigating crops

which of these statements are correct ?

1. 1 and 3 2. 2 and 3
3. 1, 2 and 4 4. 1, 2, 3 and 4

23. Which one of the following Muslim rulers was hailed as the 'Jagadguru' by his Muslim subjects because of his belief in secularism ?

1. Hussian Shah
2. Zain-ul-Abidin
3. Ibrahim Adil Shah
4. Magmud II

24. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Local bodies)

- A. Zilla Parishads at 1. Andhra Pradesh
Subdivision level

- B. Mandal Praja Parishad 2. Assam

- C. Tribal Councils 3. Mizoram

- D. Absence of village Panchayats 4. Meghalaya

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 2 | 1 | 4 | 3 |
| 2. | 1 | 2 | 4 | 3 |
| 3. | 3 | 2 | 1 | 4 |
| 4. | 2 | 1 | 3 | 4 |

25. A small pouch containing silica gel is often found in bottles of medicine in tablet or powder form because silica gel

1. Kills bacteria
2. Kills germs and spores
3. Absorbs moisture
4. Absorbs all gases present inside the bottle

26. Which one of the following statements is incor-

- rect ?
1. Goa attained full statehood in 1987
 2. Diu is an island in the Gulf of Khambhat
 3. Daman and Diu were separated from Goa by the 56th Amendment of the Constitution of India
 4. Dadra and Nagar Haveli were under French colonial rule till 1954
27. **Canola refers to special type of oil seed mustard varieties bred for human consumption. The main characteristic of these varieties is that the**
1. Seeds have very high oil content
 2. Oil is rich in unsaturated fatty acids
 3. Oil has long shelf-life
 4. Oil has very low Erucic acid content
28. **Which one of the following lakes forms an international boundary between Tanzania and Uganda?**
1. Chad
 2. Malawi
 3. Victoria
 4. Zambezi
29. **A regular piece of iron sheet measuring 50 cm by 100 cm is rolled into a cylinder of height 50 cm. If the cost of painting the cylinder is Rs. 50/- per square meter, then what will be the cost of painting the outer surface of the cylinder ?**
1. Rs. 25.00
 2. Rs. 37.50
 3. Rs. 75.00
 4. Rs. 87.50
30. **The growth rate of per capita at current prices is higher than that of per capita income at constant prices, because the latter takes into account the rate of**
1. growth of population
 2. increase in price level
 3. growth of money supply
 4. increase in the wage rate
31. **“In this instance we could not play off the Mohammedans against Hindus.” To which one of the following events did this remark of Aitchison relate ?**
1. Revolt of 1857
 2. Champaran Satyagraha (1917)
 3. Khilafat and Non-Cooperation Movement (1919-22)
 4. August Movement of 1942
32. **A noise level of 100 decibels, would correspond to**
1. Just audible sound
 2. Ordinary conversation
 3. Sound from a noisy street
 4. Noise from a machine - shop
33. **The following news item appeared in a national daily dated 1-12-1999 :**
- “... Paliament today rejected a Bill to grant women the right to vote and stand for office in parliamentary elections, by a margin of 32 to 30. The National Assembly was split between liberal, Pro-government and Shiite Muslim deputies who were in favour of women’s rights, while the opposition camp grouped Sunni Muslim fundamentalists and tribal MPs.**
- A total of 64 MPs and ministers were present, of whom two abstained”. The Paliament referred to in this quotation is that of**
1. Kuwait
 2. Iran
 3. Bahrain
 4. Saudi Arabia
34. **Which one of the following statements is not true?**
1. Ghaggra’s water is utilised in the Indira Gandhi Canal
 2. Narmada rises from Amarkantak region
 3. Nizam Sagar is situated on the Manjra river
 4. Penganga is a tributary of the Godavari
35. **The Upper part of the given graph is a hypothetical movement in the BSE Sensex over a few months and the lower part is the fluctuation in the average value of automobile shares in the same period (actual Values bot given) which one of the following inferences can be drawn from the graphs?**
- Figure**
1. The automobile share market has been as unstable as BSE Sensex in that period
 2. There has been a major political change in June/ July
 3. Automobile shares have shown a steady improvement in price, unaffected by large fluctuations in BSE Sensex
 4. None of the above
36. **A ‘black hole’ is a body in space which does not allow any radiation to come out. This property is due to its**
1. Very small size
 2. Very large size
 3. Very high density
 4. Very low density
37. **The first Indian state to have its Human Development Report prepared and released by Amartya Kumar Sen in Delhi is**
1. West Bengal
 2. Kerela
 3. Madhya Pradesh
 4. Andhra Pradesh
38. **In an examination, every candidate took physics or mathematics or both. 65.8% took physics and 59.2% took mathematics. The total number of candidates was 2000. How many candidates took both physics and mathematics ?**
1. 750
 2. 500
 3. 250
 4. 125
39. **Consider the following statements about the megacities of India.**
1. Population of each megacity is more than 5 million
 2. All the megacities are important sea ports
 3. Megacities are either national or state capitals
- Which of these statements are correct ?**
1. 1, 2 and 3
 2. 1 and 2
 3. 2 and 3
 4. 1 and 3
40. **The memory of a computer is commonly expressed in terms of kilobytes or megabytes. A byte is made up of**
1. Eight binary digits
 2. Eight decimal digits
 3. Two binary digits
 4. Two decimal digits
41. **The Parliament can make any law for the whole or any part of India for implementing international treaties**
1. With the consent of all the States
 2. With the consent of the majority of the States

3. With the consent of the States concerned
4. Without the consent of any State
42. A bag contains 20 balls. 8 balls are green, 7 are white and 5 are red. What is the minimum number of balls that must be picked up from the bag blindfolded (without replacing any of it) to be assured of picking atleast one ball of each colour ?
1. 4 2. 7 3. 11 4. 16
43. In an open economy, the national income (Y) of the economy is :
(C, I, G, X, M stand for consumption, investment, Govt. expenditure, total exports and total imports respectively)
1. $Y = C + I + G + X$ 2. $Y = C + I + G - X + M$
3. $Y = C + I + G + (X - M)$
4. $Y = C + I - G + X - M$
44. which one of the following is NOT a feature of the Government of India Act of 1935 ?
1. Diarchy at the Centre as well as in the provinces
2. A bicameral legislature
3. Provincial autonomy
4. An all - India federation
45. The correct sequence in the decreasing order of the four sugarcane producing states in India is
1. Maharastra, U.P., Tamil Nadu, Andhra Pradesh
2. U.P., Maharastra, Tamil Nadu, Andhra Pradesh
3. Maharastra, U.P., Andhra Pradesh, Tamil Nadu
4. U.P., Maharastra, Andhra Pradesh, Tamil Nadu
46. Which one of the following statements about a money bill is not correct ?
1. A money bill can be tabled in either House of Parliament
2. The Speaker of Lok Sabha is the final authority to decide whether a bill is a money bill or not
3. The Rajya Sabha must return a money bill passed by the Lok Sabha and sent it for consideration within 14 days
4. The President cannot return a money bill to the Lok Sabha for reconsideration
47. Consider the following features of newer models of motor cars :
1. Radial tyres 2. Streamlined body
3. Multipoint fuel injection
4. Catalytic converter with exhaust
which of these features make the newer models of motor cars more fuel efficient ?
1. 1 and 2 2. 2 and 3
3. 2, 3 and 4 4. 1, 3 and 4
48. The Indian National Army (I.N.A) came into existence in 1943 in
1. Japan 2. Then Burma
3. Singapore 4. Then Malaya
49. Which one of the following has a greater perimeter than the rest ?
1. A square with an area of 36 sq.cm
2. An equilateral triangle with a side of 9cm
3. A rectangle with 10 cm as length and 40 sq.cm as area
4. A circle with a radius of 4cm
50. Match the cities labelled as 1, 2, 3, 4 and 5 in the

given map with the names of the institutes located in these cities and select the correct answer using the codes given below the names of the institutes.

Map

Name of Institutes

- A. Central Marine Fisheries Research Institute
B. Central Sheep Breeding Institutes
D. National Institute of Agricultural Extension Management

Codes :

	A	B	C	D
1.	5	1	3	2
2.	5	2	1	4
3.	4	2	1	3
4.	1	2	3	4

51. A rise in 'SENSEX' means

1. A rise in prices of shares of all companies registered with Bombay Stock Exchange
2. A rise in prices of shares of all companies registered with National Stock Exchange
3. And Overall rise in prices of shares of group of companies registered with Bombay Stock Exchange
4. A rise in prices of shares of all companies belonging to a group of companies registered with Bombay Stock Exchange

52. The new GDP series released by the CSO in Feb., 1999 is with reference to base price of

1. 1991-92 2. 1992-93
3. 1993-94 4. 1994-95

53. In the given figure $OQP = 90^\circ$ and $ORP = 20^\circ$ QOR is equal to

Figure

1. 100° 2. 120° 3. 130° 4. 140°

54. Consider the following statements :

1. Maharastra has the highest acreage under jawar in India
2. Gujeat is the largest producer of groundnut in India
3. Rajasthan has the largest area of cultivable wastelands in India
4. Andhra Pradesh has the highest per hectare yield of maize in India

Which of these statements are correct ?

1. 1 and 4 2. 2 and 3
3. 1 and 3 4. 2 and 4

55. A club has 108 members. Two-thirds of them are men and the rest are women. All members are married except for 9 women. How many married woman are there in the club ?

1. 20 2. 24 3. 27 4. 30

56. The last major extension of British Indian territory took place during the time of

1. Dufferin 2. Dalhousie
3. Lytton 4. Curzon

57. Fluroscent tubes are fitted with a choke. The Choke coil

1. Steps up the line voltage
2. Steps down the line Voltage

3. Reduces current in the circuit
4. Chokes low frequency currents

58. Which one of the following pair is not correctly matched ?

1. Baki Itihas : Badal Sarkar
2. Sita Swayamvar : Vishnu Das Bhav
3. Yayati : Girish Karnad
4. Giddha : Jabbar Patel

59. The following figure represents time learning curves of two students, Q and R for learning a mathematics lesson :

figure

Which one of the following inferences can be drawn from the graph ?

1. R started slowly in the beginning got a head of Q to complete learning the lesson
2. Q started slowly and finished learning the lesson earlier than R
3. R was always faster than Q in learning the mathematics
4. Q was always faster than R in learning mathematics

60. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

- A. Atlas Cycle Company Ltd.
- B. Bharat Earth Movers Ltd
- C. Indian Farmers Fertilizers Co-operative Ltd.
- D. National Aluminium Company Ltd.

List - II

1. Bangalore
2. Bhubaneswar
3. Kalol
4. Sonapat

Codes :

	A	B	C	D
1.	1	4	2	3
2.	1	4	3	2
3.	4	1	2	3
4.	4	1	3	2

61. For reproducing sound, a CD (Compact Disc) audio player uses a

1. Quartz crystal
2. Titanium needle
3. Laser beam
4. Barium titanate ceramic

62. The 73rd Constitutional Amendment Act, 1992 refers to the

1. Generation of gainful employment for the unemployed, under - employed and women in rural area
2. Generation of employment for the able bodied adults who are in need and desirous
3. Laying the foundation for strong and vibrant Panchayat Raj Institutions in the country
4. Guarantee of right to life liberty and security of person, equality before law and equal protection without discrimination

63. A goat is tied to two poles P and Q with ropes that 15 metres long. P and Q are 20 metres apart as shown in the given diagram :

Figure

which one of the following shaded portions indicates the total area over which the goat can graze?

1.

Figures

64. match the locations of ports labelled as A, B, C and D in the given map with the names of those ports and select the correct answer using the codes given below the names of the ports :

Map

Name of ports

1. Kakinada
2. Karwar
3. Mangalore
4. Tuticorin
5. Veraval

Codes :

	A	B	C	D
1.	4	2	3	5
2.	5	2	4	1
3.	1	3	4	2
4.	5	3	2	1

65. When a CD (Compact disc used in audio and video systems) is seen in sunlight, rainbow like colours are seen. This can be explained on the basis of the Phenomenon of

1. Reflection and diffraction
2. Reflection and transmission
3. Diffraction and transmission
4. Refraction, diffraction and transmission

66. As an alternative to the partition of India, Gandhiji suggested to Mountbatten that he

1. Postpone granting of independence
2. Invite Jinnah to form the government
3. Invite Nehru and Jinnah to form the government together
4. Invite the army to take over for some time

67. A person starts from a point A and travels 3 km eastwards to B and then turns left and travels five times the distance he covered between A and B and reaches his destination D. The shortest distance between the starting point and the destination is

1. 18 km
2. 16 km
3. 15 km
4. 12 km

68. Which one of the following ports of India handles the highest tonnage of import cargo ?

1. Calcutta
2. Kandla
3. Mumbai
4. Visakhapatnam

69. The native state of Tripura involved in the Freedom movement early in the 20th century because

1. The kings of Tripura were always anti-British
2. The Bengal revolutionaries took shelter in Tripura
3. The tribes of the state were fiercely freedom loving
4. There were already some groups fighting against, the kingship and its protector, the British

70. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

- A. Cracking
- B. Smelting
- C. Hydrogenation
- D. Vulcanization

List - II

1. Rubber
2. Petroleum
3. Copper
4. Edible fats

Codes :

	A	B	C	D
1.	3	2	1	4
2.	2	3	4	1
3.	2	3	1	4
4.	3	2	4	1

71. Within biological communities some species are important in determining the ability of a large number of other species to persist in the community. Such species are called

- | | |
|----------------------|-----------------------|
| 1. Keystone | 2. Allopartic species |
| 3. Sympatric species | 4. Threataled species |

72. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

A. Boom

B. Recession

C. Depression

D. Recovery

Codes :

	A	B	C	D
1.	1	2	3	4
2.	1	2	4	3
3.	2	1	4	3
4.	2	1	3	4

73. The distribution of 1,00,000 tourists who visited India during a particular year is shown in the given charts. Based on this, the number of Japanese tourists below the age of 39 who visited India in the year concerned is

figures

1. 10,000 2. 8,000 3. 6,000 4. 4,000

74. Match the different ports of the Union Territory of Pondicherry labelled as A, B, C and D in the given map with their respective names and select the correct answer using the codes given below the list of ports :

Map

List (Ports of Pondicherry)

- | | |
|----------------|----------|
| 1. Karaikal | 2. Mahe |
| 3. Ponnicherry | 4. Yanam |

Codes :

	A	B	C	D
1.	2	1	3	4
2.	1	2	3	4
3.	2	1	4	3
4.	1	2	4	3

75. That the per capita income in India was Rs 20/- in 1867-68, was ascertained for the first time by

- | | |
|----------------|---------------------|
| 1. M.G. Ranade | 2. Sir W. Hunter |
| 3. R.C. Dutta | 4. Dadabhai Nauroji |

76. Which one of the following pairs of primitive tribes and places of their inhabitation is NOT correctly matched ?

- | | |
|----------|-----------------|
| 1. Buksa | : Pauri-Garhwal |
| 2. Kol | : Jabalpur |
| 3. Munda | : Chhotanagpur |
| 4. Korba | : Kodagu |

77. What is the maximum number of pieces of 5 cm x 5 cm 10 cm cake that can be cut from a big cake of 5 cm x 30 cm x 30 cm size ?

1. 10 2. 15 3. 18 4. 30

78. Which one of the following statements is true according to 1991 census data ?

- U.P has the highest density of population in India
- Himachal Pradesh has the highest female to male sex ratio in India
- West Bengal has the highest female to male sex ratio in India
- Bihar has the lowest literacy rate in India

Directions : The next two items are based on the following table. Study the same carefully and attempt the two items that follow it.

Indicators of development for some Asian countries:

Countries	Life expectancy at birth (years) 1995	Infant mortality rate (per 1000 births) 1996	Adult literacy rate (percent) 1995
India	62.4	72	52
China	69.2	38	82
Indonesia	64.0	47	84
Malaysia	71.4	11	84
Thailand	69.5	31	94
Korea	71.7	6	98
Philippines	67.4	32	95

79. Which one of the following statements is false ?

- All countries other than India have over 80% literacy
- Malaysia and Korea have life expectancy higher than all other countries
- Higher the adult literacy lower is the infant mortality
- The life expectancy at birth in India is almost the same as that of Indonesia

80. The best performance in terms of Human development among the Asian countries is by

- | | |
|----------|----------------|
| 1. China | 2. Malaysia |
| 3. Korea | 4. Philippines |

81. After returning from South Africa, Gandhiji launched his first successful Stayagraha in

- | | |
|------------------|------------|
| 1. Chauri-Chaura | 2. Dandi |
| 3. Champaran | 4. Bardoli |

82. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

A. Chittagong

List - II

1. Kalpana Dutt

Armoury Raid

- B. Abinav Bharat** **2. Guru Ram Singh**
C. Anushilan Samiti **3. Vikram Damodar Savarkar**
D. Kuka Movement **4. Aurobindo Ghosh**

Codes :

	A	B	C	D
1.	1	3	4	2
2.	1	3	2	4
3.	3	1	2	4
4.	3	1	4	2

- 83. Match List I with List II and select the correct answer using the codes given below the lists.**

List - I

- A. Land allotted to big feudal Landlords**
B. Land allotted to revenue farmers or rent collectors
C. Land allotted to each peasant with the right to sublet, mortgage, transfer, gift or sell
D. Revenue settlements made at village level

List - II

- 1. Jagirdari**
2. Ryotwari System
3. Mahalwari
4. Zamindari system

Codes :

	A	B	C	D
1.	1	3	2	4
2.	1	4	2	3
3.	3	4	1	2
4.	2	1	3	4

- 84. Which one of the following countries occupies the first place in the 'Global Competitive Report' of World Economic Forum ?**

1. U.S.A 2. Singapore 3. Hongkong 4. France

Directions : The following 16 items of two statements, one labelled as 'Assertion A' and the other labelled as 'Reason R'. You are to examine these two statements carefully and decide if the 'assertion A' and the 'Reason R' are individually true and if so, whether the 'Reason R' is a correct explanation of the 'assertion A'. Select your answers to these items using the codes given below and mark your answer sheet accordingly.

Codes :

1. Both A and R are true and R is the correct explanation of A
 2. Both A and R are true but R is NOT the correct explanation of A
 3. A is true but R is false
 4. A is false but R is true

- 85. Assertion (A) :** Lord Linlithgo described the August Movement of 1942 as the most serious revolt after the Sepoy Mutiny

Reason (R) : Peasants joined the movement in large numbers in some places

- 86. Assertion (A) :** A man standing on a completely frictionless surface can propel himself by whistling

Reason (R) : If no external force acts on a system its momentum cannot change

- 87. Assertion (A) :** The Aham and Puram poems of the

Padien Kilukanakku group formed a continuation of the Sangam composition

Reason (R) : They were included under the Post Sangam works as against the Sangam works proper

- 88. Assertion (A) :** In Australia, cattle rearing is done more for meat than for milk

Reason (R) : Australians are traditionally non-vegetarians

- 89. Assertion (A) :** In human beings the females play a major role in determining the sex of the offspring.

Reason (R) : Women have two 'X' chromosomes.

- 90. Assertion (A) :** Large cold storage plants use ammonia as refrigerant while domestic refrigerators use chlorofluoro carbons.

Reason (R) : Ammonia can be liquified at ambient temperatures at low pressures

- 91. Assertion (A) :** The frequency of floods in North Indian plains has increased during the last couple of decades.

Reason (R) : There has been reduction in the depth of river valleys due to deposition of silt

- 92. Assertion (A) :** The rate of growth of India's exports has shown an appreciable increase after 1991

Reason (R) : The Government of India has resorted to devaluation.

- 93. Assertion (A) :** "DNA Finger printing has become a powerful tool to establish paternity and identity of criminals in rape and assault cases.

Reason (R) : Trace evidences such as hairs saliva and dried semen are adequate for DNA analysis

- 94. Assertion (A) :** Ganga plain is the most densely populated part of India

Reason (R) : Ganga is the most harnessed river of India

- 95. Assertion (A) :** The emphasis of Jainism on non-violence (ahimsa) prevented agriculturalists from embracing Jainism.

Reason (R) : Cultivation involved killing of insects and pests.

- 96. Assertion (A) :** The origin of feudal system in ancient India can be traced to military campaigns

Reason (R) : There was considerable expansion of the feudal system during the Gupta period

- 97. Assertion (A) :** Ashoka annexed Kalinga to the Mauryan empire

Reason (R) : Kalinga controlled the land and sea routes to South India.

- 98. Assertion (A) :** The basic weakness of the early nationalist movement lay in its narrow social base.

Reason (R) : It fought for the narrow interests of the social groups which joined it.

- 99. Assertion (A) :** In a motion picture usually 24 frames are projected every second over the whole length of the film.

Reason (R) : An image formed on the retina of eye persists for about 0.1s after the removal of stimulus

- 100. Assertion (A) :** Small glass beads fixed on traffic signals glow brightly when light falls upon them

Reason (R) : Light is totally reflected when the angle of incidence exceeds a certain critical value and light

travelling in a denser medium is reflected from a rarer medium

101. Match List I with List II and select the correct answer using the codes given below the lists.

List - I	List - II
A. Development Programme	1. UN India Human Development Report
B. National Council of Applied Economic Research	2. India Development Report
C. Indira Gandhi Institute of Development Research	3. World Development Report
D. World Bank	4. Human Development Report

Codes :

	A	B	C	D
1.	4	1	2	3
2.	4	2	1	3
3.	2	3	4	1
4.	2	1	4	3

102. "..... instill into the vast millions of workers, men and women, who actually do the job, a sense of patnership and of cooperative performance....."

The above passage relates to

1. Planned development
2. Community developmet
3. Panchayati Raj System
4. Integrated Development Programme

103. The 'Stones' formed in human kidney consist mostly of

1. Calcium oxalate
2. Sodium acetate
3. Magnesium suplate
4. Calcium

104. The Speaker can ask a member of the House to stop speaking and let another member speak. This phenomenon is known as

1. Decorum
2. Crossing the floor
3. Interpellation
4. Yielding the floor

105. While delivering the presidential address, the Congress President who advocated the introduction of Roman script for Hindi language was

1. Mahatma Gandhi
2. Jawarar Lal Nehru
3. Abul Kalam Azad
4. Subhash Chandra Bose

106. Most of the explosions in mines occur due to the mixing of

1. Hydrogen with oxygen
2. Oxygen with acetylene
3. Methane with air
4. Carbon dioxide with ethane

107. Consider the following statements about the Attorney General of India :

1. He is appointed by the President of India
2. He must have the same qualifications as are required for a Judge of the Supreme Court
3. He must be a member of either House of Parliament
4. He can be removed by impeachment by Parliament

108. A rectangular water tank measures 15 m x 6 m at top and is 10 m deep. It is full of water. If water is drawn out lowering the level by 1 meter, how much

of water has been drawn out ?

1. 90,000 litres
2. 45,000 litres
3. 4,500 litres
4. 900 litres

109. Along which one of the following meridians did India experience the first light of the sunrise of the new millennium ?

1. 2° 30' W
2. 82° 30' E
3. 92° 30' W
4. 92° 30' E

110. Which one of the following organisms can serve as a biofertilizer for rice crop ?

1. Blue-green algae
2. Rhizobium sp
3. Mycorrhizal fungi
4. Azotobacter sp

111. The standing committee of State Finance Ministers recommended in January, 2000 uniform rate across the states in respect of

1. Value added tax
2. Sales tax
3. Stamp duty and registration fees
4. Agriculture income tax

112. At the time of partition of India, which one of the following provinces of British India came forward with a plan for a united and independent existance?

1. Punjab
2. Assam
3. Bengal
4. Bihar

113. Consider the following functionaries :

1. Cabinet Secretary
2. Chief Election Commissioner
3. Union Cabinet Ministers
4. Chief Justice of India

Their correct sequence, in the order of precedence is

1. 3, 4, 2, 1
2. 4, 3, 1, 2
3. 4, 3, 2, 1
4. 3, 4, 1, 2

114. THE primary function of the Finance Commission in India is to

1. Distribute revenue between the Centre and the States
2. Prepare the Annual Budget
3. Advise the President on financial matter
4. Allocate funds to various ministries of the Union and State Governments

115. The state which has the largest number of seats reserved for the Scheduled Tribes in the Lok Sabha is

1. Bihar
2. Gujarat
3. Uttar Pradesh
4. Madhya Pradesh

116. An accurate clock shows 8 O' Clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 O' Clock in the afternoon ?

1. 150°
2. 144°
3. 168°
4. 180°

117. Consider the following statements :

1. Tides are of great help in navigation and fishing
 2. High tide enables big ships to enter or leave the harbour safely
 3. Tide prevents siltation in the harbours
 4. Kandla and Diamond Harbour are tidal ports
- Which of these statements ar correct ?

1. 1 and 4
2. 2, 3 and 4
3. 1, 2 and 3
4. 1, 2, 3 and 4

118. At which stage in its life cycle does the silk worm yield the fibre of commerce ?

1. Egg 2. Larva 3. Pupa 4. Imago

119. Indian Human Development Report does not give for each sample village ?

1. Infrastructure and Amenities Index
2. Education Related Index
3. Health Related Index
4. Unemployment Related Index

120. The monthly income of komal and Asha are in the ratio of 4 : 3

Their monthly expenses are in the ratio of 3 : 2
However, both save Rs. 600/- per month. What is their total monthly income ?

1. Rs 8,400/- 2. Rs 5,600/-
3. Rs 4,200/- 4. Rs 2,800/-

121. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|-----------------|-------------------------|
| List - I | List - II |
| A. Aleutian | 1. Indian Ocean |
| B. Kermadec | 2. North Pacific Ocean |
| C. Sunda | 3. South Pacific Ocean |
| D. S. Sandwich | 4. South Atlantic Ocean |

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 2 | 4 | 1 | 3 |
| 2. | 2 | 3 | 1 | 4 |
| 3. | 1 | 3 | 2 | 4 |
| 4. | 1 | 4 | 2 | 3 |

122. The Balkan Plan for fragmentation of India was the brainchild of

1. W. Churchill 2. M.A. Jinnah
3. Lord Mountbatten 4. V.P.Menon

123. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|---------------------|------------------|
| List - I | List - II |
| A. Green silver | 1. Tin |
| B. Solder | 2. Nickel |
| C. Bleaching powder | 3. Sodium |
| D. Hypo | 4. Chlorine |

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 1 | 2 | 4 | 3 |
| 2. | 4 | 2 | 1 | 3 |
| 3. | 2 | 3 | 4 | 1 |
| 4. | 2 | 1 | 4 | 3 |

124. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|---|---------------------------------|
| List - I
(Institutes) | List - II
(Locations) |
| A. Central Institute of Higher Tibetan Studies | 1. Hyderabad |
| B. Indira Gandhi Institute of Development Research | 2. Mumbai |
| C. National Institute of Mental Health and Neuro-sciences | 3. Banglore |
| D. Central Institute of English and Foreign Languages | 4. Dharamshal
5. Varanasi |

Codes :

- | | | | |
|---|---|---|---|
| A | B | C | D |
|---|---|---|---|

- | | | | | |
|----|---|---|---|---|
| 1. | 5 | 3 | 4 | 1 |
| 2. | 5 | 2 | 3 | 1 |
| 3. | 3 | 2 | 4 | 5 |
| 4. | 4 | 5 | 2 | 1 |

125. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|-----------------|-----------------------|
| List - I | List - II |
| A. Haemophilia | 1. Deficiency disease |
| B. Diabetes | 2. Genetic disease |
| C. Rickets | 3. Hormonal disorder |
| D. Ringworm | 4. Fungal infection |

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 2 | 3 | 4 | 1 |
| 2. | 2 | 3 | 1 | 4 |
| 3. | 3 | 2 | 1 | 4 |
| 4. | 3 | 2 | 4 | 1 |

126. Economic liberalisation in India started with

1. Substantial changes in industrial licensing policy
2. The convertibility of Indian rupee
3. Doing away with procedural formalities for foreign direct investment
4. Significant reduction in tax rates

127. The blood glucose level is commonly expressed as

1. mm. of Hg 2. Milligram per decilitre
3. Parts per million 4. Grammes per litre

128. The practice of military governorship was first introduced in India by the

1. Greeks 2. Shakas
3. Parthians 4. Mughals

129. If $X = -2$, then

$X^3 - X^2 - X - 1$ is equal to

1. 1 2. -3 3. -11 4. -15

130. Consider the following statements about the Indian National Congress

1. Sarojini Naidu was the first woman to be the President of the Congress
2. C.R.Das was in prison when he functioned as the President of the Congress
3. The first Britisher to become the President of the Congress was Alan Octavian Hume
4. Alfred Webb was the President of the Congress in 1894

Which of these statements are correct ?

1. 1 and 3 2. 2 and 4
3. 2, 3 and 4 4. 1, 2, 3 and 4

131. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|---------------------------------|------------|
| | Map |
| Names of drainage basins | |
| 1. Ganga-Brahmaputra | 2. Indus |
| 3. Parana | 4. Zambezi |

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 3 | 1 | 2 | 4 |
| 2. | 1 | 3 | 4 | 2 |
| 3. | 1 | 3 | 2 | 4 |
| 4. | 3 | 1 | 4 | 2 |

132. Phytotron is a facility to

1. Grow plants under disease - free conditions
2. Conserve endangered species of plants
3. Grow plants under controlled conditions
4. Induce mutations

133. The Raga which is sung early in the morning is

1. Todi
2. Darbari
3. Bhopali
4. Bhimpalasi

134. In the given figure, all line segments of the shaded portion are of the same length and at right angles to each other. The same can be cut out of a board of side 10 cm. What is the area of the shaded portion ?

Figure

1. 36 cm²
2. 48 cm²
3. 52 cm²
4. 64 cm²

135. Gilt-edged market means

1. Bullion market
2. Market of government securities
3. Market of guns
4. Market of pure metals

136. Match List I (endocrine glands) with List II (hormones secreted) and select the correct answer using the codes given below the lists.

List - I	List - II
A. Gonads	1. Insulin
B. Pituitary	2. Progesterone
C. Pancreas	3. Growth hormones
D. Adrenal	4. Cortisone

Codes :

	A	B	C	D
1.	3	2	4	1
2.	2	3	4	1
3.	2	3	1	4
4.	3	2	1	4

137. Which one of the following dynasties was ruling over north India at the time of Alexander's invasion ?

1. Nanda
2. Maurya
3. Sunga
4. Kanva

138. Match the international events listed below with their respective places labelled as 1, 2, 3, 4 and 5 in the given map and select the correct answer using the codes given below the lists. International events.

1. Venue of Common wealth Conference held in 1999
2. Venue of World Trade Organisation meeting held in 1999
3. Place of Israel - Syria Peace talks held in January, 2000
4. Place of military action by Russian troops in January, 2000

Map

Codes :

	A	B	C	D
1.	2	1	5	3
2.	3	4	2	1
3.	4	1	2	3
4.	4	3	5	2

139. Which one of the following materials is very hard and very ductile ?

1. Carborndum
2. Tungsten
3. Cast iron
4. Nichrome

140. To reach the final of the first grand slam of the year 2000, Martin Hingis defeated

1. Lindsay Davenport
2. Jenifer Capriati
3. Sarena William
4. Conchita Martinez

141. Insect-resistant cotton plants have been genetically engineered by inserting a gene from a/an

1. Virus
2. bacterium
3. insect
4. plant

142. The Swarna Jayanti Shahari Rozgar Yojana which came into operation from 1-12-1997 aims to provide gainful employment to the urban unemployed or underemployed poor but does not include

1. Nehru Rozgar Yojana
2. Urban Basic Services Programme
3. Prime Minister's Integrated Urban Poverty Eradication Programme
4. Prime minister's Rozgar yojana

143. Soft drinks such as colas contain significant quantities of

1. caffeine
2. nicotine
3. tannin
4. renin

144. Consider the following statements regarding the Chakiarkoothu form of dance

1. It is performed by the Chakiar caste
2. It cannot be traditionally witnessed by the higher caste Hindus
3. Mizhavu is the accompanying instrument
4. Its theatre form is called Koothan - balam

Which of these statements are correct ?

1. 1, 3 and 4
2. 1, 2 and 3
3. 2, 3 and 4
4. 1, 2 and 4

145. Consider the following pictures of a dice figure

What is the number opposite ?

1. 1
2. 4
3. 5
4. Data insufficient

146. Match List I with List II and select the correct answer using the codes given below the lists.

List - I	List - II
(Minerals)	(Major Producers)
A. Mineral Oil	1. Zambia
B. Copper	2. Guyana
C. Manganese	3. Venezuela
D. Bauxite	4. Gabon

Codes :

	A	B	C	D
1.	3	1	4	2
2.	3	1	2	4
3.	1	3	2	4
4.	1	3	4	2

147. Which one of the following does a TV remote control unit use to operate a TV set ?

1. Light waves
2. Sound waves
3. Micro waves
4. Radio waves

148. Consider the following statements :

The Indian rupee is fully convertible

1. In respect of Current Account of Balance of

Payment

2. In respect of Capital Account of Balance of Payment

3. into gold

Which of these statements is/are correct ?

1. 1 alone
2. 3 alone
3. 1 and 2
4. 1, 2 and 3

149. Who among the following streamlined the Maratha administration after Sambhaji ?

1. Raja Ram
2. Balaji Viswanath
3. Ganga Bai
4. Nanaji Deshmukh

150. Hybridoma technology is a new biotechnological approach for commercial production of

1. monoclonial
2. interferon
3. antibiotics
4. alcohol

ANSWERS

1) 2	2) 2	3) 2	4) 2	5) 2	6) 4	7) 3	8) 3	9) 4	10) 4
11) 1	12) 4	13) 3	14) 2	15) 1	16) 2	17) 2	18) 2	19) 2	20) 3
21) 2	22) 4	23) 3	24) 4	25) 3	26) 4	27) 2	28) 3	29) 1	30) 2
31) 1	32) 4	33) 1	34) 1	35) 1	36) 3	37) 3	38) 2	39) 4	40) 1
41) 4	42) 4	43) 3	44) 1	45) 2	46) 1	47) 3	48) 3	49) 3	50) 2
51) 3	52) 3	53) 1	54) 2	55) 3	56) 1	57) 3	58) 3	59) 1	60) 4
61) 3	62) 3	63) 3	64) 2	65) 1	66) 2	67) 3	68) 2	69) 2	70) 2
71) 3	72) 1	73) 1	74) 1	75) 4	76) 4	77) 3	78) 4	79) 3	80) 3
81) 3	82) 2	83) 2	84) 2	85) 1	86) 1	87) 3	88) 2	89) 4	90) 1
91) 1	92) 1	93) 1	94) 2	95) 1	96) 3	97) 1	98) 3	99) 1	100) 1
101) 1	102) 2	103) 1	104) 4	105) 3	106) 3	107) 1	108) 1	109) 4	110) 1
111) 2	112) 1	113) 3	114) 1	115) 4	116) 4	117) 4	118) 2	119) 4	120) 3
121) 2	122) 3	123) 4	124) 2	125) 2	126) 1	127) 2	128) 1	129) 3	130) 2
131) 4	132) 3	133) 1	134) 3	135) 2	136) 3	137) 1	138) 3	139) 2	140) 4
141) 2	142) 4	143) 1	144) 1	145) 2	146) 1	147) 3	148) 1	149) 2	150) 1

GENERAL STUDIES CIVIL SERVICES - 1999

1. If it is 10.00 a.m. I.S.T., then what would be the local time at shillong on 92° E longitude ?
 1. 9.38 a.m.
 2. 10.38 a.m.
 3. 10.22 a.m.
 4. 9.22 a.m.
2. The constitution of India recognises
 1. Only Religious minorities
 2. Only Linguistic minorities
 3. Religious and Linguistic minorities
 4. Religious, Linguistic and ethnic minorities
3. In the sequence of numbers 5, 8, 13, x, 34, 55, 89, the value of 'X' is
 1. 20
 2. 21
 3. 23
 4. 29
4. 'The king was freed from his people and they from their king'. On whose death did Badauni comment thus ?
 1. Balban
 2. Alauddin Khilji
 3. Muhammad-bin-Tughlaq
 4. Ferozeshah Tughlaq
5. Match List I with List II and select the correct answer using the codes given below the lists.

List - I	List - II
A. Adrenalin	1. Anger, fear, danger
B. Estrogen	2. Attracting partners through sense of smell
C. Insulin	3. Females
D. Pheromones	4. Glucose

Codes :

	A	B	C	D
1.	3	1	4	2
2.	1	3	2	4
3.	1	3	4	2
4.	3	1	2	4
6. In the new Panchayati Raj bill enacted in 1993, there are several fresh provisions deviating from the past. Which one of the following is not one such provision ?
 1. A number of added responsibilities in the area of agriculture, rural development, primary education and social forestry among others
 2. Elections being made mandatory for all posts at the time they are due
 3. A statutory representation for women in the panchayats, up to a third of the strength
 4. Regular remuneration to the panchayat members, so as to ensure their punctuality and accountability
7. A ship sailing from the eastern extremity of the Aleutian Islands to Dutch harbour crosses 180° meridian at 23.30 hrs on January 1, 1999. What time and date will be recorded by the captain of the ship in his diary after one-hour journey from the point of crossing the meridian ?
 1. January 1, 0030 hrs
 2. January 2, 0030 hrs
 3. January 3, 0030 hrs
 4. January 4, 0030 hrs
8. Neem tree has acquired industrial importance as a source of
 1. Biopesticide and antifertility compound
 2. Anti fertility compound, biofertilizer and anti-cancer drug
 3. Biofertilizer, bio pesticide and antifertility compound
 4. Anti-cancer drug, biopesticide and biofertilizer
9. On another planet, the local terminology for earth, water, light, air and sky are 'sky', 'light', 'air', 'water' and 'earth' respectively. If some-one is thirsty there, what would he drink ?
 1. Sky
 2. Water
 3. Air
 4. Light
10. Consider the following statements :
An amendment to the constitution of India can be initiated by the
 1. Lok Sabha
 2. Rajya Sabha
 3. State legislatures
 4. President

Which of the above statements is/are correct ?

 1. a only
 2. a, b and c
 3. b, c and d
 4. a and b
11. The first venture of Gandhi in all-India politics was the
 1. Non co-operation movement
 2. Rowlatt Stayagraha
 3. Champaran movement
 4. Dandi March
12. Match List I (Drugs/ chemicals) with List II (their uses) and select the correct answer using the codes given below the lists.

List - I	List - II
A. Altropine	1. Local anaesthesia
B. Ether	2. Heart trouble
C. Nitroglycerine	3. Dilation of pupil
D. Pyrethrin	4. Mosquito control

Codes :

	A	B	C	D
1.	1	3	2	4
2.	1	3	4	2
3.	3	1	4	2
4.	3	1	2	4
13. Persons below the poverty line in India are classified as such based on whether
 1. They are entitled to a minimum prescribed food basket
 2. They get work for a prescribed minimum number of days in a year
 3. They belong to agricultural labourer household and the scheduled caste/tribe social group
 4. Their daily wages fall below the prescribed minimum wages
14. Which one of the following scholars suggested the earth's origin from gases and dust particles ?
 1. James Jeans
 2. H. Alfven
 3. F. Hoyle
 4. O. Schmidt
15. In a business concern, there are four functions, namely, production (PR), Finance (FN), Personnel (PS) and Marketing (MK), the customer (C) may also play a role in the prosperity of the con-

cern. Match list I with List II and select the correct answer using the codes given below the lists.

- | | |
|--------|--|
| List I | List II |
| | Pie Diagram Statement |
| A. | 1. Customer is the controlling factor |
| B. | 2. Marketing is an integrating factor while customer is the controlling factor |
| C. | 3. Marketing is the controlling factor |
| D. | 4. Marketing is more important than others |
| | 5. Marketing is as equal function as the others |

Codes :

	A	B	C	D
1.	4	3	1	2
2.	5	4	1	2
3.	4	3	2	5
4.	5	4	2	1

16. The term 'Aryan' denotes

- | | |
|--------------------|---------------------|
| 1. An ethnic group | 2. A nomadic people |
| 3. A speech group | 4. A superior race |

17. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|------------|--------------|
| List - I | List - II |
| A. Diamond | 1. Calcium |
| B. Marble | 2. Silicon |
| C. Sand | 3. Aluminium |
| D. Ruby | 4. Carbon |

Codes :

	A	B	C	D
1.	3	1	2	4
2.	4	2	1	3
3.	2	1	3	4
4.	4	1	2	3

18. Consider the following statements :

Regional disparities in India are high and have been rising in recent years because

- There is persistent investment over time only in select locales
- Some areas are agro-climatically less conducive to development
- Some areas continue to face little or no agrarian transformation and the consequent lack of social and economic opportunities
- Some areas have faced continuous political instability

Which of these statements are correct ?

- | | |
|---------------|---------------|
| 1. a, b and c | 2. a, b and d |
| 3. a, c and d | 4. b, c and d |

19. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|---------------------------------|------------------------|
| List - I
(Volcanic mountain) | List - II
(Country) |
| A. Mt. Rainier | 1. Italy |
| B. Etna | 2. Italy |
| C. Paricutin | 3. Philippines |
| D. Taal | 4. U.S.A. |

Codes :

A	B	C	D
---	---	---	---

	4	2	1	3
1.	4	2	1	3
2.	4	1	2	3
3.	2	1	4	3
4.	4	3	2	1

20. Indian Farmers are unhappy over the introduction of "Terminator Seed Technology" because the seeds produced by this technology are expected to

- Show poor germination
- Form low-yielding plants despite the high quality
- Give rise to sexually sterile plants
- Give rise to the plants incapable of forming viable seeds

21. Consider the following statements about the recent amendments to the Election Law by the representation of the People (amendment) Act 1996:

- Any conviction for the offence of insulting the Indian National Flag or the Constitution of India shall entail disqualification for contesting elections to the Parliament and the State legislature for six years from the date of conviction
- There is an increase in the security deposit which a candidate has to make to contest the election to the Lok Sabha

3. A candidate cannot now stand for election from more than one Parliamentary constituency

- No election will now be countermanded on the death of contesting candidate

Which of the above statements are correct ?

- | | |
|------------|------------------|
| 1. 2 and 3 | 2. 1, 2 and 4 |
| 3. 1 and 3 | 4. 1, 2, 3 and 4 |

22. The average speed of a train in the onward journey is 25% more than that of the return journey. The train halts for one hour on reaching the destination. The total time taken for the complete to and fro journey is 17 hours covering a distance of 800 km. The speed of the train in the onward journey is

- | | |
|----------------------|----------------------|
| 1. 45.00 km per hour | 2. 47.06 km per hour |
| 3. 50.00 km per hour | 4. 56.25 km per hour |

23. Consider the following statements :

The striking feature of the Jama Masjid in Kashmir completed by Zain-ul-Abidin include(s)

- Turret
- Similarity with Buddhist pagodas
- Persian style

Which of the above statement(s) is/are correct ?

- | | |
|------------|---------------|
| 1. 1 alone | 2. 1, 2 and 3 |
| 3. 2 and 3 | 4. 1 and 3 |

24. The Ravva offshore block, with great potential for oil, is located in the

- Krishna - Godavari basin
- Cauvery basin
- Mahanandi basin
- Palar - Pennar basin

25. Consider the following statements regarding a motor car battery :

- The Voltage is usually 12v
- Electrolyte used is hydrochloric acid
- Electrodes are lead and copper
- Capacity is expressed in ampere- hour

Which of the above statements are correct ?

- | | | | |
|------------|------------|------------|------------|
| 1. 1 and 2 | 2. 2 and 3 | 3. 3 and 4 | 4. 1 and 4 |
|------------|------------|------------|------------|

26. In the given map, which one of the following pairs of ocean currents is shown ?

Figure

1. Beguela and Falkland 2. Canary and Humboldt
3. Agulhas and Guinea 4. Benguela and Guinea

27. In a town, 25% families own a phone and 15% own a car and 65% families own neither a phone nor a car. 2000 families own both a car and a phone. Consider the following statements in this regard :

1. 10% families own both a car and a phone
2. 35% families own either a car and a phone
3. 40,000 families live in the town

Which of the above statements are correct ?

1. 1 and 2 2. 1 and 3 3. 2 and 3 4. 2 and 3

28. Which one of the following statements regarding the levying, collecting and distribution of income tax is correct ?

1. The Union levies, collects and distributes the proceeds of income tax between itself and the states
2. The union levies, collects and keeps all the proceeds of income tax with itself
3. The union levies and collects the tax but all the proceeds are distributed among the states
4. Only the surcharge levied on incometax is shared between the union and the states

29. The congress policy of pray and petition ultimately came to an end under the guidance of

1. Aurobindo Ghosh 2. Bal Gangadhar Tilak
3. Lala Lajpat Rai 4. Mahatma Gandhi

30. Match List I (quantity) with List II (Units) and select the correct answer using the codes given below the lists.

List - I

- A. High Speed
B. Wave length
C. Pressure
D. Energy

List - II

1. Mach
2. Angstrom
3. Pascal
4. Joule

Codes :

	A	B	C	D
1.	2	1	3	4
2.	1	2	4	3
3.	1	2	3	4
4.	2	1	4	3

31. Consider the following statements :

Industrial development in India, to an extent, is constrained by

1. Lack of adequate entrepreneurship and leadership in business
2. Lack of savings to invest
3. Lack of technology, skills and infrastructure
4. Limited purchasing power among the larger masses

Which of the above statements are correct ?

1. 1, 2 and 3 2. 1, 3 and 4
3. 2, 3 and 4 4. 2, 2 and 4

32. At which one of the following positions shown in the diagram the height of the ocean tide will be maximum ?

Map

1. M₁ 2. M₂ 3. M₃ 4. M₄

33. Which one of the following genetic disease is sex-linked ?

1. Royal haemophilia 2. Tay-Sachs disease
3. Cystic fibrosis 4. Hypertension

34. The yield versus fertilizer input is shown in the following graph :

Graph

Consider the following statements based on this graph :

1. Yield rate is zero at B and C
2. There is no yield with no fertilizer input
3. The yield is minimum at D
4. The yield is neither minimum nor maximum at C

Which of the above statements are correct ?

1. 1, 2 and 4 2. 3 and 4
3. 2 and 3 4. 1, 3 and 4

35. Among which one of the following sets of social/religious groups, the extent of poverty is the highest as per Government statistics for the nineties?

1. Muslims in Kerala, Gujarat and A.P
2. Tribals in Bihar, Orissa, M.P and Maharashtra
3. Scheduled castes in Punjab, Western UP, Northern Rajasthan and Tamil Nadu
4. Christians in Gujarat, Maharashtra and Assam

36. Which one of the following ports handled the north Indian trade during the Gupta period ?

1. Tamralipti 2. Broach
3. Kalyan 4. Cambay

37. For which one of the following, capillarity is not the only reason ?

1. Blotting of ink
2. Rising of underground water
3. Spread of water drop on a cotton cloth
4. Rising of water from the roots of a plant to its foliage

38. Tourism industry in India is quite small compared to many other countries in terms of India's potential and size. Which one of the following statements is correct in this regard ?

1. Distances in India are too far apart and its luxury hotels are too expensive for the western tourists
2. For most of the months, India is too hot for the western tourists to feel comfortable
3. Most of the picturesque resorts in India such as in the North-East and Kashmir are, for all practical purposes, out of bounds
4. In India, the infrastructure required for attracting tourists is inadequate

39. Which one of the areas marked as A, B, C and D in the given figure of the cyclone witnesses heavy torrential short-duration rainfall accompanied by Thunderstorms ?

Figure

1. A 2. B 3. C 4. D

40. In a code language, 'SOLID' is written as 'WPSLPIMFHA'. What does the code word 'ATEXXQIBVO' refer to ?

1. EAGER 2. WAFER 3. WAGER 4. WATER

41. Which one of the following statements is correct ?
1. Kacchativu and Tin Bigha were the territories acquired by the Indian Republic from the French
 2. Kacchativu and Tin Bigha are the territories handed over to Sri Lanka and Bangladesi sovereignty respectively by the Government of India
 3. Kacchativu and Tin Bigha are those areas that were annexed by the Chinese in the 1962 Sino Indian War.
 4. Kacchativu and Tin Bigha are those enclaves which were transferred to India by lease arrangements with Sri Lanka and Pakistan respectively.

42. Which one of the following pairs is not correctly matched ?

1. Jahangir - William Hawkins
2. Akbar - Sir Thomas Roe
3. Shahjahan - Tavernier
4. Aurangzeb - Manucci

43. Consider the following statements :

1. If a person looks at a coin which is in a bucket of water, the coin will appear to be closer than it really is
2. If a person under water looks at a coin above the water surface, the coin will appear to be at a higher level than it really is

Which of the above statements is/are correct ?

1. 1 and 2
2. 1 alone
3. 2 alone
4. Neither 1 nor 2

44. The employment assurance scheme envisages financial assistance to rural areas for guaranteeing employment to atleast

1. 50 Percent of the men and women seeking jobs in the rural areas
2. 50 percent of the men seeking jobs in the rural areas
3. One man and one woman in a rural family living below the poverty line
4. One person in a rural landless household living below the poverty line

45. Consider the following temperature and rainfall data :

Month	Temperature (°C)	Rainfall (cm)
January	6.7	14.0
February	6.7	13.2
March	7.2	11.4
April	8.9	9.4
May	11.1	8.1
June	13.9	8.1
July	15.0	9.6
August	15.0	12.2
September	13.9	10.4
October	11.1	14.4
November	8.9	14.0
December	7.8	16.8

The climate to which this data pertain is

1. St. Lawrence type
2. China type
3. West European type
4. Mediterranean type

46. Lathyrism is caused by excessive consumption of

1. Kesari dal
2. Mustard oil
3. Polished rice
4. Mushroom

47. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Persons) List - II (Journals)

- | | |
|--------------------------|-----------------------|
| A. Shyamji Krishna Varma | 1. Bande Matram |
| B. Madame Bhikaji Cama | 2. Indian Sociologist |
| C. Annie Besant | 3. The Talwar |
| D. Aurobindo Ghosh | 4. Common wealth |

Codes :

	A	B	C	D
1.	2	3	4	1
2.	3	2	1	4
3.	2	3	1	4
4.	3	2	4	1

48. A company manufacturing air-conditioners has set a monthly target. The target and the realised values are shown in the bar chart.

Graph

Consider the following statements based on the chart :

1. The targeted sales on a monthly basis have been achieved
2. The overall target value has been exceeded by 7.5%

3. The sales department deserves a pat on the back

Which of the above statements is/are correct ?

1. 1 alone
2. 2 alone

3. 1 and 2
4. 2 and 3

49. A British citizen staying in India cannot claim right to

1. Freedom of trade and profession
2. Equality before the law
3. Protection of life and personal liberty
4. Freedom of religion

50. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Timber) List - II (Country)

- | | |
|----------------|-------------|
| A. Cedar | 1. Myanmar |
| B. Douglas Fir | 2. Canada |
| C. Mahogany | 3. Mexico |
| D. Teak | 4. Honduras |

Codes :

	A	B	C	D
1.	3	2	1	4
2.	3	2	4	1
3.	2	3	4	1
4.	2	3	1	4

51. In a group of five people, K, L and M are ambitious, M, N and R are honest, L, M and N are intelligent and K, N and R are industrious. Among these, neither industrious nor ambitious person(s) would include

1. K alone
2. L and R
3. M and N
4. None in the group

52. The first writer to use Urdu as the medium of poetic expression was

1. Amir Khusrau
2. Mirza Ghalib
3. Bahadur Shah Zafar
4. Faiz

53. Barium in a suitable form is administered to pa-

tients before an X-ray examination of the stomach, because

1. Barium allows X-rays to pass through the stomach on account of its transparency to X-rays
2. Barium compound, like magnesium sulphate, helps in cleaning the stomach before X-ray examination
3. Barium is good absorber of X-rays and this helps the stomach to appear clearly in contrast with the other regions in the picture
4. Barium salts are white in colour and this helps the stomach to appear clearly in contrast with other regions in the picture

54. Consider the following statements regarding the National Human Rights Commission of India :

1. Its Chairman must be retired chief justice of India
2. It has formations in each state as state human rights commissions
3. its powers are only recommendatory in nature
4. It is mandatory to appoint a woman as a member of commission

Which of the above statements are correct ?

1. 1, 2, 3 and 4
2. 2 and 4
3. 2 and 3
4. 1 and 3

55. Match List I with List II and select the correct answer using the codes given below the lists.

List - I List - II

- | | |
|--------------|---|
| A. Cotton | 1. Rainfall 1000-1500mm,
Temperature 40° - 60° C |
| B. Flax | 2. Rainfall 1500-2000mm,
Temperature 25° - 35° C |
| C. Sugarbeet | 3. Rainfall 600-800 mm,
Temperature 5° - 18° C |
| D. Jute | 4. Rainfall 500-1000 mm,
Temperature 18° - 22° C |
| | 5. Rainfall 500-600 mm,
Temperature 18° - 22° C |

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 1 | 3 | 4 | 2 |
| 2. | 2 | 3 | 5 | 4 |
| 3. | 4 | 5 | 2 | 1 |
| 4. | 4 | 3 | 5 | 2 |

56. The minimum land area recommended for forest cover to maintain proper ecological balance in India is

1. 25%
2. 33%
3. 43%
4. 53%

57. A man is standing on the 8m long shadow of a 6m lone pole. If the length of his shadow is 2.4m, what is the height of the man ?

1. 1.4m
2. 1.6m
3. 1.8m
4. 2.0m

58. The paintings of Abanindranath Tagore are classified as

1. Realistic
2. Socialistic
3. Revivalistic
4. Impressionistic

59. If the angles of a triangle are in the ratio of 4 : 3 : 2, then the triangle

1. Is obtuse
2. Has one angle greater than 80°
3. Is a right triangle

4. Is acute

60. From the third century AD when the Hun invasion ended the Roman Empire, the Indian merchants relied more and more on the

1. African trade
2. West-European trade
3. South-East Asian trade
4. Middle-Eastern trade

61. Endoscopy, a technique used to explore the stomach or other inner parts of the body, is based on the phenomenon of

1. Total internal reflection
2. Interference
3. Diffraction
4. Polarisation

62. The planning process in the industrial sector in India has assumed a relatively less important position in the nineties as compared to that in the earlier period. Which one of the following is not true in this regard ?

1. With the advent of liberalisation, industrial investments/developments have largely been placed within the domain of private and multi national sectors
2. With markets assuming a central place, the role of central planning in many sectors has been rendered redundant
3. The focus of planning has shifted to sectors like human resource development, infrastructure, population control and welfare
4. The nation's priorities have shifted away from industrial development to rural development

63. Which one of the following port cities in Venezuela has been developed as an oil port ?

1. Caracas
2. Maracaibo
3. Maracay
4. Carupano

64. Match list I with list II and select the correct answer using the codes given below the lists :

List I

A. Pandit Vishnu

B. Venkatamahi

C. Shama Shastri

D. Amir Khusrau

List II

1. Introduced the scheme Digambar Paluskar of Raga classification

2. Proponent of Carnatic music

3. Proponent of the Khyal form of Hindustani music

4. Wrote the music for the song 'Vande Mataram'

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 4 | 1 | 3 | 2 |
| 2. | 4 | 1 | 2 | 3 |
| 3. | 1 | 4 | 3 | 2 |
| 4. | 1 | 4 | 2 | 3 |

65. The surface area of spherical dome-shaped-roof of a cylindrical water tank shown in the figure is figure

1. $60\pi m^2$
2. $109\pi m^2$
3. $120\pi m^2$
4. $300\pi m^2$

66. There was no independent development of industries in India during the British rule because of the

1. Absence of heavy industries

2. Scarcity of foreign capital
 3. Scarcity of natural resources
 4. Preferences of the rich to invest in land
67. Strips of two metals A and B are firmly joined together as shown in the figure.

figure

on heating, A expands more than B does. If this joined strip is heated, then it will appear as

1. figures

68. Consider the following statements :
- Small - scale industries are, in most cases, not as efficient and competitive as the large-scale ones. Yet the Government provides preferential treatment and reservation in a range of products to the small firms because small scale industries
1. Provide higher employment on a per unit capital deployment basis
 2. Promote a regional dispersion of industries and economic activities
 3. Have performed better in export of manufactured products than the the large scale ones
 4. Provides jobs to low - skilled workers, who other-wise may not find employment avenues else - where

Which of the above statements are correct ?

1. 1 and 2
2. 1 and 4
3. 2 and 3
4. 3 and 4

69. Match the cities labelled as A, B, C and D in the given map with the names of cities and select the correct answer using the codes given below the names of cities

Map

Names of cities

- | | | | |
|------------|-----------------|----------|--|
| 1. Darwin | 2. Kuala lumpur | 3. Lagos | |
| 4. Nairobi | 5. Singapore | | |

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 1 | 2 | 4 | 3 |
| 2. | 2 | 1 | 4 | 3 |
| 3. | 1 | 4 | 5 | 2 |
| 4. | 4 | 3 | 5 | 2 |

70. The first feature film (talkie) produced in India was

1. Hatimtai
2. Alam Ara
3. Pundalik
4. Raja Harishchandra

71. Which one of the following agricultural practices is eco- friendly ?

1. Organic farming
2. Shifting cultivation
3. Cultivation of high yielding varieties
4. Growing plants in glass - houses

72. If $X + 2Y = 2X + Y$, the X^2/Y^2 is equal to

1. 0
2. 1
3. 2
4. 4

73. A hemispherical bowl is filled to the brim with a beverage. The contents of the bowl are transferred into a cylindrical vessel whose radius is 50% more than its height. If the diameter is same for both the bowl and the cylinder, then the volume of the beverage in the cylindrical vessel will be

1. $66 \frac{2}{3}\%$
2. $78 \frac{1}{2}\%$
3. 100%

4. More than 100% (that is, some liquid will still be left in the bowl)

74. A hunter aims his gun at a point between the eyebrows of a monkey sitting on the branch of a tree. Just as he fires, the monkey jumps down. The bullet will

1. Hit the monkey at the point aimed
2. Hit the monkey below the point aimed
3. Hit the monkey above the point aimed
4. Miss the monkey altogether

75. The economic crisis in the later half of 1990s most seriously affected Indonesia, Thailand, Malaysia and South Korea. The cause of the Crisis was

1. Mismanagement of the financial resources and financial sector, in general
2. The prolonged over-valuation of local currencies vis-a-vis the western currencies
3. The downswing and recession in the western economies which earlier provided export market to these export oriented countries
4. None of the above

76. A person of mixed European and Indian blood in Latin America is called a

1. Mulatto
2. Mestizo
3. Meiji
4. Mau Mau

77. Match list I with list II and select the correct answer using the codes given below the lists :

List I (Libraries)	List II (Locations)
-----------------------	------------------------

- | | |
|--|---------------|
| A. Saraswati Mahal Library | 1. patna |
| B. Library of Tibetan Works and Archives | 2. Dharamsala |
| C. Raza Library | 3. Thanjavur |
| D. Khuda Baksh Oriental Public Library | 4. Rampur |

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 3 | 2 | 4 | 1 |
| 2. | 3 | 2 | 1 | 4 |
| 3. | 2 | 3 | 1 | 4 |
| 4. | 2 | 3 | 4 | 1 |

78. In an office, the distribution of work hours is as shown in the following table :

No. of Staff Members	No. of Hours Worked
5	0 - 19
12	20 - 24
25	25 - 29
40	30 - 34
15	35 - 39
8	40 - 45

Consider the following inferences drawn from the table :

1. The average number of hours worked by a staff member is about 30
2. The percentage of those who worked 35 or more hours is less than 25
3. At least 5 staff members worked more than 44 hours

Which of these inferences is/are valid ?

1. 1 alone
2. 2 alone
3. 1 & 2
4. 1, 2 & 3

79. The following persons came to India at one time or another :

1. Fa-Hien
2. I-Tsing
3. Megasthenese
4. Hieun-Tsang

80. When ants bite, they inject

1. Glacial acetic acid
2. Methanol
3. Formic acid
4. Stearic acid

81. The farmers are provided credit from a number of sources for their short and long-term needs. The main sources of credit to the farmers include

1. The Primary Agricultural Cooperative Societies, commercial banks, RRBs and Private money lenders
2. The NABARD, RBI, commercial banks and private money lenders
3. The District Central Cooperative Banks (DCCB), the lead Banks . IRDP and JRY
4. The Large Scale Multi-purpose Adivasis Programme, DCCB, IFFCO and commercial banks

82. which one of the countries labelled as 1, 2, 3 and 4 on the given map was granted membership of G-15 in its VII Summit at Kuala Lumpur ?

Map

1. 1
2. 2
3. 3
4. 4

83. In a factory, quality assurance test is conducted on various samples for a specific characteristic value of the product. The values and the number of samples are as given in the following table :

Characteristic Value (X)	No. of Samples
10	3
11	7
12	10
13	15
14	28
15	33
16	24
17	11
18	10
19	6
20	3

Consider the following statements based on the table :

1. The probability that $X < 15$ is 0.64
2. The probability that $13 < x < 17$ is greater than 0.64
3. The probability that $X = 15$ is less than 0.22

Which one of the above statements is/are not true?

1. 1 alone
2. 1 & 2
3. 2 & 3
4. 1, 2 & 3

84. Transchart is the

1. Chartering wing of the Ministry of Surface Transport
2. Container service established by the Indian Railways
3. Training Institute of Maritime Studies and Research

4. Passenger Insurance Scheme of the Indian Railways

85. To Which Lodi Sultan does the given map relate and what town does the site marked A on the map represent ?

Map

1. Behlol Lodi, Jaunpur
2. Sikandar Lodi, Aligarh
3. Ibrahim Lodi, Jaunpur
4. Ibrahim Lodi, Aligarh

86. "India has the largest population of the Asian X. Today, there are just about 20,000 to 25,000 X in their natural habitat spreading across the evergreen forests, dry thorn forests, swamps and grasslands. Their prime habitats are, however, the moist deciduous forests. The X population in India ranges from North -West India where they are found in the forest divisions of Dehradun, Bijnor and Nainital districts of UP to the Western Ghats in the States of Karnataka and Kerala and in Tamil Nadu. In central India, their population is distributed in southern Bihar and Orissa. In the East, they are seen in North Bengal, Assam and a few other States."

The animal 'X' referred to in this quotation is

1. Lion
2. Elephant
3. Tiger
4. One-horned Rhinoceros

87. Which one of the following statements is not true of the Konkan Railway ?

1. The total length is about 760 km
2. It runs through the States of Karnataka, Goa, Maharashtra and Kerala
3. It is the only rail route that cuts across the Western Ghats
4. The Konkan Railways Construction Company which came into being raised money through Public Issues

88. The Product life cycle from inception to demise is shown in the graph Match List I with List II and select the correct answer using the codes given below the lists :

List I (Stage)

- A. Product Development
- C. Growth

- B. Maturity
- D. Introduction

Figure

Codes :

	A	B	C	D
1.	1	4	2	3
2.	1	4	3	2
3.	4	1	2	3
4.	4	1	3	2

89. Which one of the following is a useful functional association between fungi and the roots of higher plants ?

1. Biofertilizer
2. Coralloid root
3. Lichen
4. Mycorrhiza

90. The physical regions marked as 1, 2, 3 and 4 on the given map are respectively

Map

1. Andes, Brazilian Shield, Guyana Highlands and Amazon Basin

2. Andes, Guyana Highlands, Brazilian Sield, and Amazon Basin
3. Amazon Basin, Guyana Highlands, Brazilian Sield and Andes
4. Guyana Highlands, Brazilian Sield, Andes and Amazon Basin

91. The given figure shows a portion of Southern India. The proposed site (Koodankulam) for the construction of two 100 MW nuclear power plants has been labelled in the map as

Map

1. A
2. B
3. C
4. D

92. At a given time, two players are standing on a play-field. The Cartesian coordinates of their locations are (20, 60) and (-40, -20) units. What is the distance between them ?

1. 60 units
2. 80 units
3. 100 units
4. 140 units

93. 'Abinava Bharat', a secret society of revolutionaries, was organised by

1. Khudiram Bose
2. V.D. Savarkar
3. Prafulla Chaki
4. Bhagat Singh

94. Which one of the following types of coal contains a higher percentage of carbon than the rest ?

1. Bituminous coal
2. Lignite
3. Peat
4. Anthracite

95. Which one of the following is the objective of National Renewal Fund ?

1. To safeguard the interest of workers who may be affected by technological upgradation of industry or closure of sick units
2. To develop the core sector of the economy
3. For the development of infrastructure such as energy, transport, communications and irrigation
4. For human resources development such as full literacy, employment, population control, housing and drinking water

96. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Resorts)

A. Chakrata

B. Haflong

C. Kalimpong

D. Kufri

Codes :

List - II

(States)

1. Assam

2. West Bengal

3. Uttar Pradesh

4. Himachal Pradesh

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 1 | 3 | 2 | 4 |
| 2. | 3 | 1 | 4 | 2 |
| 3. | 3 | 1 | 2 | 4 |
| 4. | 1 | 3 | 4 | 2 |

97. Consider the following statements about European Union :

1. The European Union was known early as the European Community
2. The Single European Act (1986) and the Maastricht Treaty were the milestones in its formation
3. Citizens of the European Union countries enjoy dual citizenship
4. Switzerland is a member of the European Union

Which of the above statements are correct ?

1. 2 and 4
2. 1 and 3
3. 3 and 4
4. 1, 2 and 3

98. The area of an Ellipse is twice of a circle. The major diameter of the Ellipse is twice that of the minor diameter. The radius of the circle is ?

1. 50% of the minor diameter of the Ellipse
2. 50% of the major diameter of the Ellipse
3. Minor diameter of the Ellipse
4. Major diameter of the Ellipse

99. Which one of the following was initially the most powerful City State of Indian in the 6th century B.C. ?

1. Gangadhar
2. Kamboj
3. Kashi
4. Magadh

100. Cobalt - 60 is commonly used in radiation therapy because it emits

1. Alpha rays
2. Beta rays
3. Gamma rays
4. X - rays

101. In the given figure, the site of the Tehri dam has been labelled as

Figure

1. A
2. B
3. C
4. D

102. In which of the following areas in the given map, there was a recent discovery of copper deposits by atomic Minerals Division of the Department of Atomic Energy ?

Map

1. 1
2. 2
3. 3
4. 4

103. Which one of the following statements is not correct ?

Dinar/New Dinar is the currency of

1. Sudan
2. Yugoslavia
3. U.A.E.
4. Tunisia

104. Which one of the following pairs is not correctly matched ?

1. Jim Laker : Highest number of wickets in a Cricket Test Match
2. Brian Lara : Highest score in an innings in Test Cricket
3. Sanath Jayasurya and Roshan Mahanama : Highest partnership in an innings in Test Cricket
4. Sunil M. Gavaskar : Highest aggregate of runs in Test Cricket

105. The most short-lived of all of the Britain's constitutional experiments in India was the

1. Indian Councils Act of 1861
2. Indian Council Act of 1892
3. Indian Councils Act of 1909
4. Government of India Act of 1919

106. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Indutries)

A. Pearl fishing

B. Automobiles

List - II

(Industrial centre)

1. Pune

2. Tuticorin

C. Ship building **3. Pinjore**
D. Engineering goods **4. Marmagoa**
Codes :

	A	B	C	D
1.	2	1	4	3
2.	2	1	3	4
3.	1	2	4	3
4.	1	2	3	4

107. The language spoken by the largest number of people in the world is

1. Hindi 2. English 3. Mandarin 4. Spanish

108. "It made its proposals in May. It still wanted a united India. There was to be a federal Union composed of British provinces."

The above quotation is related to

1. Simon Commission 2. Gandhi - Irwin Pact
 3. Cripps Mission 4. Cabinet Mission

109. The Governor - General who followed a spirited "Forward" policy towards Afghanistan was

1. Minto 2. Dufferin 3. Elgin 4. Lytton

110. The first marine sanctuary in India, having within its bounds coral reefs, mollusca, dolphins, tortoises and various kinds of sea birds, has been established in

1. Sundrabans 2. Chilika Lake
 3. Gulf of Kachchh 4. Lakshadweep

111. Which one of the following pairs of folk dance forms and the States is not correctly matched ?

1. Korku : Maharashtra
 2. Jhummar : Haryana
 3. Thali : Himachal Pradesh
 4. Mukna : Manipur

112. Low temperatures (Cryogenics) find application in

1. Space travel, surgey and magnetic levitation
 2. Surgery, magnetic levitation and telemetry
 3. Space travel, surgery and telemetry
 4. Space travel, magnetic levitation and telemetry

113. The population growth rate in Kerela is the lowest among major Indian States. Which one of the following is the most widely accepted reasons for this ?

1. Kerela has made the highest investment in family planning
 2. Kerela has the highest literacy rate in India
 3. Kerela has invested heavily in promoting literacy and public health and placed high priority on social policies
 4. The population pyramid in Kerela has relatively fewer women in the reproductive age group

114. In order to win the Grand Slam in Tennis, a player must win which one of the following groups of tournaments ?

1. Australian Open, Wimbledon, French Open, U.S. Open
 2. Wimbledon, French Open, Paegas Czec Open, U.S. Open
 4. Davis Cup, Wimbledon, French Open

115. Which one of the following legislations does not deal with the protection of environment ?

1. The Water (Cess) Act, 1977

2. The Forest (Conservation) Act, 1980
 3. The Public Liability Insurance Act, 1991
 4. The Port Laws Amendment Act, 1997

116. The Indo-Greek Kingdom set up in north Afghanistan in the beginning of the second century B.C. was

1. Bacteria 2. Scythia 3. Zedrasia 4. Aria

117. Match List I with List II and select the correct answer using the codes given below the lists.

List - I List - II

A. WTO 1. Provides loans to address short-term balance of payment problems

B. IDA 2. Multi-lateral trade negotiation body

C. IMF 3. Sanction of Soft loans

D. IBRD 4. Facilitating lending and borrowing for reconstruction and development

Codes :

	A	B	C	D
1.	2	3	4	1
2.	2	3	1	4
3.	3	2	4	1
4.	3	2	1	4

118. At a time when empires in Europe were crumbling before the might of Napoleon, which one of the following Governors - General kept the British flag flying high in India ?

1. Warren Hastings 2. Lord Cornwallis
 3. Lord Wellesley 4. Lord Hastings

119. Match the areas shown as A, B, C and D on the given map with the largest religious minorities. Select the correct answer using the codes given below the list of minorities.

Map

Largest Religious Minorities

1. Buddhists

2. Christians

3. Jains

4. Muslims 5. Sikhs

Codes :

	A	B	C	D
1.	5	1	3	2
2.	4	3	2	1
3.	5	3	1	2
4.	4	2	1	3

120. Which one of the following pairs of States and tribes is not correctly matched ?

1. Assam : Miri
 2. Nagaland : Konyak
 3. Arunachal Pradesh : Apatani
 4. Madhya Pradesh : Lambada

121. Amar, Akbar and Anthony are friends, being looked after by a matron Farah. Amar weighs 50% more than Akbar and Anthony weighs 25% less than Amar. Farah weighs a third of the combined weight of the three boys. All four together weigh 232 kg. The correct arrangement of the persons in the ascending order of their weights is

1. Anthony, Akbar, Farah, Amar
 2. Anthony, Akbar, Amar, Farah
 3. Akbar, Anthony, Amar, Farah

4. Akbar, Anthony, Farah, Amar

122. Which Indian nationalist leader looked upon a war between Germany and Britain as a godsend opportunity which would enable Indians to exploit the situation to their advantage ?

1. C. Rajagopalachari 2. M.A.Jinnah
3. Subhash Chandra Bose 4. Jawaharlala Nehru

123. As per the 1991 Census, which one of the following groups of Union Territories had the highest literacy rate ?

1. Chandigarh and Dadra & Nagar Haveli
2. Delhi and Andaman & Nicobar Islands
3. Andaman & Nicobar Islands and Pondicherry
4. Pondicherry and Delhi

124. In the rough outline map of a part of Jammu and Kashmir shown in the figure, places marked, A, B, C and D represent respectively

Figure

1. Anantnag, Baramulam Srinagar and Kargil
2. Baramula, Srinagar, Kargil and Anantnag
3. Baramula, Srinagarm Anantnag and kargil
4. Srinagar, Baramula, Kargil and Anantnag

125. Which one of the following leaders of the Congress was totally in favour of the Cabinet Mission Plan ?

1. Mahatma Gandhi 2. Jawaharlal Nehru
3. Sardar Patel
4. Maulana Abul Kalam Azad

126. In the November 1998 Composite Dialogue Process between India and Pakistan, three contentious issues listed below as 1, 2 and 3 were discussed

- 1. Disengagement of troops**
2. Settlement of boundary disputes
3. Sharing the river water

Map

Match the issues with the areas marked in the map as A, B and C and select the correct answer using the codes given below ?

Codes :

- | | A | B | C |
|----|---|---|---|
| 1. | 2 | 1 | 3 |
| 2. | 2 | 3 | 1 |
| 3. | 1 | 3 | 2 |
| 4. | 3 | 2 | 1 |

127. Which one of the following statements is not correct ?

1. 'Neel Darpan' was a play based on the exploitation of the indigo farmers
2. The author of the play 'Ghasiram Kotwal' is Vojay Tendulkar
3. The play 'Navanna' by Nabin Chandra Das was based on the famine of Bengal
4. Urdu theatre was used to depend heavily on Parsi theatre

128. Which one of the following Indian leaders was dismissed by the British from the Indian Civil Service ?

1. Satyendranath Tagore
2. Surendranath Bannerji

3. R C Dutt

4. Subhash Chandra Bose

129. Match List I with List II and select the correct answer using the codes given below the lists.

List I

(Writers)

A. Sashi Tharoor

B. Amtav Ghosh

C. Anita Desai

D. Vikram Chandra

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 4 | 2 | 1 | 3 |
| 2. | 4 | 2 | 3 | 1 |
| 3. | 2 | 4 | 1 | 3 |
| 4. | 2 | 4 | 3 | 1 |

List II

(Books)

1. Clear Light of Day

2. Circle of Reason

3. Love and longing in Bombay

4. Show Business

130. Match List I with List II and select the correct answer using the codes given below the lists.

List I

(Rivers)

A. Cauvery

B. Krishna

C. Narmada

D. Chambal

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 1 | 4 | 2 | 3 |
| 2. | 2 | 1 | 4 | 3 |
| 3. | 2 | 1 | 3 | 4 |
| 4. | 1 | 3 | 4 | 2 |

List II

(Dams)

1. Alamatti

2. Mettur

3. Gandhi Sagar

4. Sardar Sarovar

131. Match List I with List II and select the correct answer using the codes given below the lists.

List I

(Books)

A. The First Indian War of Independence

B. Anand Math

C. Life Divine

D. Sadhana

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 4 | 3 | 2 | 1 |
| 2. | 3 | 4 | 1 | 2 |
| 3. | 4 | 3 | 1 | 2 |
| 4. | 3 | 4 | 2 | 1 |

List II

(Authors)

1. Rabindranath Tagore

2. Sri Aurobindo

3. Bankim Chandra Chatterji

4. Vinayak Damodar Savarkar

132. Consider the following events :

1. Indigo Revolt

2. Santhal Rebellion

3. Deccan Riot

4. Mutiny of the Sepoys

The correct Chronological sequence of the events is

1. 4, 2, 1, 3

2. 4, 2, 3, 1

3. 2, 4, 3, 1

4. 2, 4, 1, 3

133. Consider the following statements :

Glass can be etched or scartched by

1. Diamond

2. Hydrofluoric acid

3. Aquaregia

4. Conc. Sulphuric acid

Which of these statements are correct ?

1. 1 and 4

2. 2 and 3

3. 1 and 2

4. 2 and 4

134. Match List I with List II and select the correct answer using the codes given below the lists.

List I (Year)	List II (Event)
A. 1775	1. First Anglo - Burmese War
B. 1780	2. First Anglo - Afghan War
C. 1824	3. First Anglo - Maratha War
D. 1838	4. Second Anglo - Mysore War

Codes :

	A	B	C	D
1.	4	3	2	1
2.	4	3	1	2
3.	3	4	1	2
4.	3	4	2	1

135. Since 1980, the share of the tertiary sector in the total GDP of India has

1. Shown an increasing trend
2. Shown a decreasing trend
3. Remained constant
4. Been fluctuating

136. The term imperial preference was applied to the

1. Special privileges on British imports in India
2. Racial discrimination by the Britishers
3. Subordination of Indian interest to that of the British
4. Preference given to British political agents over Indian Princess

Directions : The following 10 items of two statements, one labelled as 'Assertion A' and the other labelled as 'Reason R'. You are to examine these two statements carefully and decide if the 'assertion A' and the 'Reason R' are individually true and if so, whether the 'Reason R' is a correct explanation of the 'assertion A'. Select your answers to these items using the codes given below and mark your answer sheet accordingly.

Codes :

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are true but R is NOT the correct explanation of A
3. A is true but R is false
4. A is false but R is true

137. Assertion (A) : During the time of Akbar, for every ten cavalymen, the mansabdars had to maintain twenty horses

Reason (R) : Horses had to be rested while on march and replacements were necessary in times of war.

138. Assertion (A) : Lord Linlithgow described the August Movement of 1942 the most serious rebellion since Sepoy Mutiny

Reason (R) : There was massive upsurge of the peasantry in certain areas

139. Assertion (A) : To dilute sulphuric acid, the acid is added to water and not water to the acid

Reason (R) : Specific heat of water is quite large

140. Assertion (A) : Devaluation of a currency may promote export

Reason (R) : Price of the country's products in the international market may fall due to devaluation

141. Assertion (A) : Fiscal deficit is greater than budgetary deficit

Reason (R) : Fiscal deficit is the borrowing from the Reserve Bank of India plus other liabilities of the Government to meet its expenditure

142. Assertion (A) : According to Statistics, more female children are born each year than male children in India

Reason (R) : In India, the death rate of a male child is higher than that of a female child

143. Assertion (A) : Insect resistant transgenic cotton has been produced by inserting Bt gene

Reason (R) : The Bt gene is derived from a bacterium

144. Assertion (A) : Information technology is fast becoming a very important field of activity in India

Reason (R) : Software is one of the major exports of the country and India has a very strong base in hardware

145. Assertion (A) : Chile continues to be an important producer of copper in the world

Reason (R) : Chile is endowed with the world's largest deposit of porphyry copper

146. Assertion (A) : Dolly was the first cloned mammal

Reason (R) : Dolly was produced by in vitro fertilization

147. One consistent feature found in the history of southern India was the growth of small regional kingdoms rather than large empires because of

1. The absence of minerals like iron
2. Too many divisions in the social structure
3. The absence of vast areas of fertile land
4. The scarcity of man power

148. Consider the following statements :

An ordinary light bulb has the rather short life because the

1. Filament wire is not uniform
2. Bulb cannot be evacuated completely
3. Wires supporting the filament melt at high temperatures.

Which of the above statements are correct ?

1. 1 and 3
2. 2 and 3
3. 1 and 2
4. 1, 2 & 3

149. From the balance sheet of a company, it is possible to

1. Judge the extent of profitability of the company
2. Assess the profitability and size of the company
3. Determine the size and composition of the assets and liabilities of the company
4. Determine the market share, debts and assets of the company

150. In eye donation, which one of the following parts of donor's eye is utilized ?

1. Iris
2. Lens
3. Cornea
4. Retina

ANSWERS

1) 2	2) 3	3) 2	4) 3	5) 3	6) 4	7) 2	8) 4	9) 4	10) 4
11) 3	12) 4	13) 1	14) 4	15) 2	16) 4	17) 4	18) 1	19) 2	20) 3
21) 2	22) 4	23) 4	24) 1	25) ?	26) 4	27) 3	28) 1	29) 2	30) 3
31) 3	32) 4	33) 1	34) 4	35) 2	36) 1	37) 4	38) 4	39) 3	40) 4
41) 2	42) 2	43) 1	44) 4	45) 3	46) 1	47) 4	48) 2	49) 1	50) 2
51) 4	52) 1	53) 3	54) 3	55) 4	56) 2	57) 3	58) 3	59) 4	60) 3
61) 1	62) 2	63) 2	64) 2	65) 1	66) 4	67) 2	68) 3	69) 1	70) 2
71) 1	72) 1	73) 3	74) 4	75) 2	76) 2	77) 1	78) 3	79) 2	80) 3
81) 1	82) 4	83) 4	84) 1	85) 3	86) 2	87) 4	88) 2	89) 4	90) 1
91) 2	92) 3	93) 2	94) 4	95) 1	96) 3	97) 4	98) 3	99) 3	100) 3
101) 4	102) 3	103) 1	104) 4	105) 3	106) 1	107) 3	108) 4	109) 4	110) 4
111) 1	112) 1	113) 3	114) 1	115) 1	116) 1	117) 2	118) 3	119) 3	120) 4
121) 4	122) 3	123) 4	124) 3	125) 4	126) 1	127) 4	128) 2	129) 1	130) 2
131) 1	132) 4	133) 3	134) 3	135) 1	136) 1	137) 1	138) 2	139) 2	140) 1
141) 1	142) 3	143) 2	144) 1	145) 1	146) 3	147) 3	148) 2	149) 3	150) 3

GENERAL STUDIES

CIVIL SERVICES - 1998

1. Which of the following elements is essential for the construction of nuclear reactors ?
 1. Cobalt
 2. Nickel
 3. Zirconium
 4. Tungsten
2. The educated middle class in India
 1. opposed the revolt of 1857
 2. supported the revolt of 1857
 3. remained neutral to the revolt in 1857
 4. fought against native rulers
3. Which one of the following regions of the world supplies the maximum of our imported commodities (in terms of rupee value)
 1. Africa
 2. America
 3. Asia and Oceania
 4. Europe
4. The currency of the proposed European Monetary Union will be
 1. Dollar
 2. Euro
 3. Guilder
 4. Mark
5. Which one of the following was the venue for the preliminary talks between the Srilankan Government and representatives of Tamil United Liberation Front and other militant groups ?
 1. New Delhi
 2. Colombo
 3. Thimpu
 4. Madras
6. Consider the following statements regarding asteroids :
 1. Asteroids are rocky debris of varying sizes orbiting the sun
 2. Most of the asteroids are small but some have diameter as large as 1000 km
 3. The orbit of asteroids lies between the orbits of Jupiter and Saturn.
 Of these statements
 1. 1, 2 and 3 are correct
 2. 2 and 3 are correct
 3. 1 and 2 are correct
 4. 1 and 3 are correct
7. 'MERCOUR' consists of group of countries of
 1. Africa
 2. Asia
 3. Latin America
 4. South East Asia
8. Which one of the following countries has replaced Italy as the major importer of bauxite from India?
 1. Canada
 2. Greece
 3. Ukraine
 4. United Arab Emirates
9. Lord Mountbatten came to India as Viceroy along with specific instruction to
 1. balkanize the Indian sub-continent
 2. keep India united if possible
 3. accept Jinnah's demand for Pakistan
 4. persuade the Congress to accept partition
10. Which one of the following is the correct sequence of the States (labelled 1, 2, 3 and 4) of India shown on the map in descending order in terms of their available ground water resources for irrigation ?
 1. 3, 4, 1, 2
 2. 3, 4, 2, 1
 3. 4, 3, 1, 2
 4. 4, 3, 2, 1
11. Consider the following statements :
 The price of any currency in international market is decided by the
 1. World Bank
 2. demand for goods/services provided by the country concerned
 3. stability of the government of the concerned country
 4. economic potential of the country in question
 Of these statements
 1. 1, 2, 3 and 4 are correct
 2. 2 and 3 are correct
 3. 3 and 4 are correct
 4. 1 and 4 are correct
12. Consider the following statements :
 Coke is one of the materials of the charge added to blast furnace for the the production of steel/iron. Its function is to
 1. act as a reducing agent
 2. remove silica associated with the iron ore
 3. function as fuel, to supply heat
 4. act as an oxidising agent
 Of these statements
 1. 1 and 2 are correct
 2. 2 and 4 are correct
 3. 1 and 3 are correct
 4. 3 and 4 are correct
13. A consumer is said to be in equilibrium, if
 1. he is able to fulfil his needs with a given level of income
 2. he is able to lives in full comforts with a given level of income
 3. he can fulfil his needs without consumption of certain items
 4. he is able to locate new sources of income
14. Production of Rice and Wheat

Year	In millions of Tonnes		Percentage of wheat to Rice
	Rice	Wheat	
1950-51	20.58	6.46	31.4
1960-61	34.58	11.00	31.8
1970-71	42.22	23.83	56.4
1980-81	53.63	36.31	67.7
1990-91	74.29	55.14	74.2
1994-95	81.81	65.77	80.4
1995-96	79.62	62.62	78.6

 The above table indicatess the performance of India in rice and wheat production from 1950-51 to 1995-96. Which of the following conclusions arrived at from the above table would be valid ?
 1. there has been record production of rice as well as wheat in 1994-95
 2. The ratio of wheat to rice production seems to a have steadily increased over 16 years
 3. Wheat has not been popular among the Indian population before 1980
 4. India became self-sufficient in rice and whear only after 1990

Select the correct answer using the codes given below :

Codes :

- | | |
|------------|------------------|
| 1. 1 and 2 | 2. 1, 2, 3 and 4 |
| 3. 3 and 4 | 4. None |

15. Among the Indian States shown labelled 1, 3 and 4 in the rough outline map given, the correct sequence of descending order of per cent of scheduled tribe population to their total population is:

Map

- | | |
|---------------|---------------|
| 1. 1, 3, 2, 4 | 2. 3, 1, 2, 4 |
| 3. 3, 1, 4, 2 | 4. 1, 3, 4, 2 |

16. which one of the following sets of States stands to benefit the most from the Konkan Railway ?

1. Goa, Karnataka, Maharashtra, Kerala
2. Madhya Pradesh, Maharashtra, Tamil Nadu, Kerala
3. Tamil Nadu, Kerala, Goa, Maharashtra
4. Gujarat, Maharashtra, Goa, Tamil Nadu

17. The supply - side economies lays greater emphasis on the point of view of

- | | |
|-------------|-------------------|
| 1. producer | 2. global economy |
| 3. consumer | 4. middle-man |

18. Which one of the following languages belongs to the Austric group ?

- | | |
|------------|------------|
| 1. Marathi | 2. Ladakhi |
| 3. Khasi | 4. Tamil |

19. Which one of the following metals does not form amalgams ?

- | | |
|--------------|-----------|
| 1. Zinc | 2. Copper |
| 3. Magnesium | 4. Iron |

20. Indonesian forest fire in 1997 was caused by

1. greenhouse effect
2. depletion of ozone layer
3. El Niño effect
4. None of the above

21. LMNOP, is a semicircle with centre at R and diameter LP, LSR and RQP are also semicircles with centres at T and U and diameters LR = RP = 1/2. The ratio of perimeters of LMNOP and LSRQP is

Figure

- | | |
|-------------|-------------|
| 1. 0.75 : 1 | 2. 1 : 1 |
| 3. 1 : 0.75 | 4. 1.25 : 1 |

22. Match the following research institutes A, B, C and D with their respective location labelled as 1 to 6 in the given rough outline map :

Map

- Central Drug Research Institute
- National Atlas and Thematic mapping organisation
- National Institute of Ocean technology
- Temperate Forest Research Centre

Select the correct answer using the codes given below :

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 4 | 2 | 2 | 6 |
| 2. | 4 | 5 | 1 | 6 |
| 3. | 2 | 3 | 4 | 5 |
| 4. | 1 | 6 | 2 | 3 |

23. Bharat Ratna was awarded in 1997 to

1. Dr. Homi Bhabha (Posthumous)
2. Former President R. Venkataraman
3. Satyajit Ray (Posthumous)
4. Dr. Abdul Kalam

24. Which of the following statements are true about the India - born woman astronaut Kalpana Chawla ?

1. She was born in Karnal
2. She flew on board the shuttle flight STS - 87
3. She was trained at the Kennedy Space Centre
4. She did a space-walk to retrieve the Spartan Satellite

Select the correct answer using the codes given below :

- | | |
|---------------|---------------|
| 1. 1 and 2 | 2. 2 and 3 |
| 3. 1, 2 and 3 | 4. 1, 2 and 4 |

25. A man purchases two clocks A and B at a total cost of Rs. 650. He sells A with 20% profit and B at a loss of 25% and gets the same selling price for both the clocks. What are the purchasing of A and B respectively ?

- | | |
|---------------------|---------------------|
| 1. Rs. 225; Rs. 425 | 2. Rs. 250; Rs. 400 |
| 3. Rs. 275; Rs. 375 | 4. Rs. 300; Rs. 350 |

26. A fuse is used in mains electric supply as a safety device. Which one of the following statements about the fuse is correct ?

1. It is connected in parallel with the main switch
2. It is made mainly from silver alloys
3. It must have a low melting point
4. It must have a very high resistance.

Directions (Qs. 27 to 40) : The following 16 items of two statements, one labelled as 'Assertion A' and the other labelled as 'Reason R'. You are to examine these two statements carefully and decide if the 'assertion A' and the 'Reason R' are individually true and if so, whether the 'Reason R' is a correct explanation of the 'assertion A'. Select your answers to these items using the codes given below and mark your answer sheet accordingly.

Codes :

1. Both A and R are true and R is the correct explanation of A
2. Both A and R are true but R is NOT the correct explanation of A
3. A is true but R is false
4. A is false but R is true

27. Assertion (A) : The Gandhara School of Arts bears the mark of Hellenistic influence
Reason (R) : Hinayana form was influenced by that art.

28. Assertion (A) : Formic acid is a stronger acid than acetic acid
Reason (R) : Formic acid is an organic acid

29. Assertion (A) : At first the Turkish administration in India was essentially military
Reason (R) : The country was parcelled out as 'Iqtas' among leading military leaders

30. Assertion (A) : According to Ashoka's edicts social harmony among the people was more important than religious devotion

- Reason (R) :** He spread the ideas of equality instead of promotion of religion
31. **Assertion (A) :** The temperature of a metal wire rises when an electric current is passed through it.
Reason (R) : Collision of metal atoms with each other releases heat energy
32. **Assertion (A) :** The Khilafat Movement did bring the urban Muslims into the fold of the National movement.
Reason (R) : There was a predominant element of anti-imperialism in both the National and Khilafat movements.
33. **Assertion (A) :** Phenyl is used as a household germicide
Reason (R) : Phenyl is a phenol derivative and phenol is an effective germicide.
34. **Assertion (A) :** Partition of Bengal in 1905 brought an end to the Moderates' role in the Indian freedom movement.
Reason (R) : The Surat session of Indian National Congress separated the Extremists from the Moderates.
35. **Assertion (A) :** The first ever Bill to make primary education compulsory in India was rejected in 1911.
Reason (R) : Discontent would have increased if every cultivator could read.
36. **Assertion (A) :** Sodium metal is stored under kerosene
Reason (R) : Metallic sodium melts when exposed to air
37. **Assertion (A) :** The Congress rejected the Cripps proposals
Reason (R) : The Cripps Mission consisted solely of whites
38. **Assertion (A) :** The United States of America has threatened to ask the World Trade Organisation (WTO) to apply sanctions against the developing countries for the non-observance of ILO conventions
Reason (R) : The United States of America itself has adopted and implemented those ILO conventions
39. **Assertion (A) :** During the reign of Shahjahan, Dara Shikoh was sent on expedition to Balkha, Badakhshan and Qandahar.
Reason (R) : The expedition sent by Shahjahan to the Middle - East was a marvellous success
40. **Assertion (A) :** Gandhi stopped the Non-Cooperation Movement in 1922.
Reason (R) : Violence at Chauri Chaura led him to stop the movement
41. **The correct sequence of different layers of the atmosphere from the surface of the Earth upwards is :**
1. Troposphere, Stratosphere, Ionosphere, Mesosphere
 2. Stratosphere, Troposphere, Ionosphere, Mesosphere
 3. Troposphere, Stratosphere, Mesosphere, Ionosphere
 4. Stratosphere, Troposphere, Mesosphere, Ionosphere
42. **If 15 pumps of equal capacity can fill a tank in 7 days, how many extra pumps will be required to fill the tank in 5 days ?**
1. 6 2. 7 3. 14 4. 21
43. **Which of the following pairs are correctly matched?**
1. Lothal : Ancient dockyard
 2. Sarnath : First Sermon of Buddha
 3. Rajgir : Lion capital of Ashoka
 4. Nalanda : Great seat of Buddhist learning
- Select the correct answer using the codes given below**
1. 1, 2, 3 and 4
 2. 3 and 4
 3. 1, 2 and 4
 4. 1 and 2
44. **Which one of the following pairs of cities has recently been connected through a 6-lane express way?**
1. Ahmedabad : Vadodara
 2. Dhaka : Chittagong
 3. Islamabad : Lahore
 4. Mumbai : Pune
45. **Match List I with List II and select the correct answer using the codes given below the lists.**
- | | |
|-----------------|------------------|
| List - I | List - II |
| A. Ringgit | 1. Indonesia |
| B. Baht | 2. South Korea |
| C. Rupiah | 3. Thailand |
| D. Won | 4. Malaysia |
- Codes :**
- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 1 | 3 | 4 | 2 |
| 2. | 4 | 3 | 1 | 2 |
| 3. | 1 | 2 | 4 | 3 |
| 4. | 4 | 2 | 1 | 3 |
46. **Consumption of fish is considered to be healthy when compared to flesh of other animals because fish contains**
1. Polyunsaturated fatty acids
 2. saturated fatty acids
 3. essential vitamins
 4. more carbohydrates and proteins
47. **Consider the following statements : Ahadis were those troopers who**
1. offered their services singly
 2. did not attach themselves to any chief
 3. had the emperor as their immediate colonel
 4. attached themselves to Mirzas
- Of these statements :**
1. 1, 3 and 4 are correct
 2. 1, 2 and 3 are correct
 3. 2 and 3 are correct
 4. 1 and 4 are correct
48. **Out of the three annual examinations, each with a total of 500 marks, a student secured average marks of 45% and 55% in the first and second annual examinations. To have an overall average of 60%, how many marks does the student need to secure in the third annual examination ?**
1. 450
 2. 400
 3. 350
 4. 300
49. **When the Indian Muslim League was induced into the interim government in 1946, Liaquat Ali heads**
1. Foreign affairs
 2. Home

3. Finance 4. Defence
50. Which one of the following ancient Indian records is the earliest royal order to preserve food grains to be utilised during the crises in the country ?

1. Sohgaura Copper-plate
2. Rummindei pillar-edict of Ashoka
3. Prayaga-Prasasti
4. Mehrauli Pillar inscription of Chandra

51. According to Meadows (1972), if the present trends in world population, industrialisation, pollution, food production and resource depletion continue unchanged, the "Limits to Growth" on our planet will be reached in the next.

1. 50 years 2. 100 years
3. 150 years 4. 200 years

52. Human Poverty Index was introduced in the Human Development Report of the year

1. 1994 2. 1995 3. 1996 4. 1997

53. Match List I with List II and select the correct answer using the codes given below the lists.

List - I (Disease)	List - II (Organism)
A. Malaria	1. Fungi
B. Poliomyelitis	2. Bacteria
C. Tuberculosis	3. Virus
D. Ringworm	4. Protozoan

Codes :

	A	B	C	D
1.	4	3	2	1
2.	4	3	1	2
3.	3	4	1	2
4.	3	4	2	1

54. Consider the following :

1. Tughlaquabad Fort 2. Lodi Garden
3. Qutb Minar 4. Fatehpur Sikri

The correct chronological order in which they were built is :

1. 3, 1, 4, 2 2. 3, 1, 2, 4
3. 1, 3, 2, 4 4. 1, 3, 4, 2

55. Which one of the following satisfies the relationship Dda : aDD :: Rrb : ?

1. DDA 2. RRR 3. bRR 4. BBr

56. The concept of Eight-fold path forms the theme of

1. Dipavamsa 2. Divyavadana
3. Mahaparinnibban Sutta
4. Dharma Chakra Pravartana Sutta

57. The recent Landmines Conference to sign the historic treaty was held in the capital city of

1. Canada 2. Japan
3. Sweden 4. Zimbabwe

58. Which of the following pairs are correctly matched?

1. Dow Jones : New York
2. Hang Seng : Seoul
3. FTSE - 100 : London

Select the correct answer using the codes given below :

Codes :

1. 1, 2 and 3 2. 2 and 3

3. 1 and 2 4. 1 and 3

59. The Indian National Congress agreed in 1947 to the partition of the country mainly because

1. the principle of two-nation theory was then acceptable to them
2. it was imposed by the British Government and the Congress was helpless in this regard
3. they wanted to avoid large-scale communal riots
4. India would have otherwise lost the opportunity to attain freedom.

60. Haemophilia is a genetic disorder which leads to :

1. decrease in haemoglobin level
2. rheumatic heart disease
3. decrease in WBC 4. non-clotting of blood

61. Match List I with List II and select the correct answer using the codes given below the lists.

List - I	List - II
A. 1556	1. Battle of Haldi Ghati
B. 1600	2. Nadir Shah's capture of Delhi
C. 1686	3. Death of Shivaji
D. 1739	4. Grant of Charter to East India Company
	5. Accession of Akbar

Codes :

	A	B	C	D
1.	3	4	2	1
2.	5	4	3	2
3.	5	2	1	4
4.	1	5	3	2

62. A square pond has 2m sides and is 1m deep. If it is to be enlarged, the depth remaining the same, into a circular pond with the diagonal of the square as diameter as shown in the figure, then what would be the volume of earth to be removed ?

Figure

1. $(2\pi-4) m^3$ 2. $(4\pi-4) m^3$ 3. $(4\pi-2) m^3$ 4. $(2\pi-2) m^3$

63. Match rivers labelled A, B, C and D on the given Map with their names given in the list and select the correct answer using the codes given below the lists :

Map

List I	Map
1. St. Lawrence	2. Orinoco
3. Mackenzie	4. amazon
5. Yukon	

Codes :

	A	B	C	D
1.	4	3	2	1
2.	5	3	1	2
3.	5	4	1	3
4.	3	1	4	2

64. Consider the following statements about acetylene:

1. It is used in welding industry
2. It is a raw material for preparing plastics
3. It is easily obtained by mixing silicon carbide and water

Of these statements

1. 1 and 2 are correct 2. 1 and 3 are correct
3. 2 and 3 are correct 4. 1, 2 and 3 are correct

65. At the time of India's Independence, Mahatma Gandhi was

1. a member of Congress Working Committee
2. not a member of the congress
3. the President of the Congress
4. the General Secretary of the Congress

66. A ball is dropped from the top of a high building with a constant acceleration of 9.8 m/s^2 . what will be its velocity after 3 seconds ?

1. 9.8 m/s
2. 19.6 m/s
3. 29.4 m/s
4. 39.2 m/s

67. The economist who was associated with the WTO draft document is :

1. A.K. Sen
2. T.N. Srinivasan
3. J.N. Bhagwati
4. Avinash Dixit

68. One local and another express train were proceeding in the same direction on parallel tracks at 29 km/hour and 65 km/hour respectively.

The driver of the former noticed that it took exactly 16 seconds for the faster train to pass by him. What is the length of the faster train ?

1. 60 m
2. 120 m
3. 160 m
4. 240 m

69. In the given map the shaded part represents Akbar's empire at a certain juncture : 'A' stands for an independent country and 'B' marks the site of a city. Which one of the following alternatives gives all correct information ?

Map

- | | |
|--------------------|---------------|
| 1. Akbar in 1557 : | (A) Golkunda, |
| | (B) Lahore |
| 2. Akbar in 1557 : | (A) Khandesh, |
| | (B) Multan |
| 3. Akbar in 1605 : | (A) Gondwana |
| | (B) Multan |
| 4. Akbar in 1605 : | (A) Gondwana |

70. Estuaries possess blooms of excessive growth of a pigmented dinoflagellates. These blooms are called

1. red tides
2. sea tides
3. black tides
4. sea flowers

71. Consider the following climatic conditions (northern hemisphere) :

	Temperature C°	Rainfall cm
J	3.9	4.7
F	4.4	5.7
M	8.3	8.2
A	14.4	9.2
M	20.0	9.2
J	23.3	17.7
J	27.8	14.5
A	27.8	14.0
S	22.3	12.7
O	18.3	7.0
N	12.2	5.0
D	6.7	3.5

These are most likely to be found in the natural regions of :

1. China type
2. Equatorial type
3. Hot desert type
4. Monsoon type

72. A, B, C, D, E and F not necessarily in that order

are sitting on six chairs regularly placed around a round table. It is observed that

A is between D and F

C is opposite D

and D and E are not on neighbouring chairs.

Which one of the following pairs must be sitting on neighbouring chairs ?

1. A and B
2. C and E
3. B and F
4. A and C

73. The number of economically active women (excluding students and those doing domestic duties in their homes) as a percentage of all women of working age (generally those aged 15-64 years) was the highest in 1996 in

1. U.S.A.
2. China
3. Russia
4. S. Korea

74. If in certain code SAND is VDOG and BIRD is ELUG, then what is the code for LOVE ?

1. PRYG
2. ORTG
3. NPUH
4. ORYH

75. When there is noon at I.S.T. meridian people on another place of the Earth are taking their 6 o'clock morning tea. Then longitude of the place is :

1. $17^{\circ} 30'$ E
2. $7^{\circ} 30'$ W
3. $172^{\circ} 39'$ E
4. 90° W

76. Match list I with list II and select the correct answer using the codes given below the lists :

List I (Special characteristic)	List II (Name of planet)
------------------------------------	-----------------------------

- | | |
|---|------------|
| A. Smallest planet of the solar system | 1. Mercury |
| B. Largest planet of the solar system | 2. Venus |
| C. Planet second from the Sun in the Solar system | 3. Jupiter |
| D. Planet nearest to the Sun | 4. Saturn |

Codes :

	A	B	C	D
1.	2	3	5	1
2.	3	5	1	2
3.	4	1	2	3
4.	4	3	2	1

77. The given map relates to MAP

1. Kaniska at the time of his death
2. Samudragupta after the close of his South Indian campaign
3. Ashoka towards close of his reign
4. Empire of Thaneshwar on the eve of Harsha's accession

78. In a family, a couple has a son and a daughter. The age of the father is three times that of his daughter and the age of the son is half of his mother. The wife is nine years younger to her husband and the brother is seven years older than his sister. What is the age of the mother ?

1. 40 years
2. 45 years
3. 50 years
4. 60 years

79. The missing fraction in the series given below is : $4/9, 9/20, \dots, 39/86$

1. $17/40$
2. $19/42$
3. $20/45$
4. $29/53$

80. Which one of the following schedules of the Constitution of India contains provisions regarding Anti-Defection Act ?

1. Second Schedule
2. Fifth Schedule
3. Eighth Schedule
4. Tenth Schedule

81. Which one of the following types of micro organisms is most widely used in industries ?

1. Bacteria
2. Bacteria and fungi
3. Bacteria and algae
4. Bacteria, microalgae and fungi

82. Many of the Greeks, Kushanas and Shakas embraced Buddhism rather than Hinduism because

1. Buddhism was in the ascendant at that time
2. They had renounced the policy of war and violence
3. Caste-ridden Hinduism did not attract them
4. Buddhism provided easier access to Indian society

83. There are 50 students admitted to a nursery class. Some students can speak only English and some can speak only Hindi. Ten students can speak both English and Hindi. If the number of students who can speak English is 21, then how many students can speak Hindi, how many can speak only Hindi and how many can speak only English ?

1. 21, 11 and 29 respectively
2. 28, 18 and 22 respectively
3. 37, 27 and 13 respectively
4. 39, 29 and 11 respectively

84. Match the names of outstanding Indian scientists given in List - I with area of their specialized work given in List - II and select the correct answer using the codes given below the lists :

List - I

List - II

- | | |
|------------------------|------------------------------------|
| A. Dr. Raja Ramanna | 1. Plant Chemistry |
| B. Dr. M.S.Swaminathan | 2. Nuclear Physics |
| C. Prof. U.R.Rao | 3. Thermodynamics and Astrophysics |
| D. Prof. Meghnad saha | 4. Space research |
| | 5. Agricultural science |

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 3 | 5 | 2 | 1 |
| 2. | 2 | 1 | 4 | 3 |
| 3. | 2 | 5 | 4 | 3 |
| 4. | 3 | 1 | 4 | 2 |

85. The satellites of which one of the following countries have helped in the preparation of a detailed and complete map of Antarctica ?

1. Canada
2. France
3. Russia
4. U.S.A

86. The Indian parliamentary system is different from the British parliamentary system in that India has

1. Both a real and a nominal executive
2. A system of collective responsibility
3. Bicameral legislature
4. The system of Judicial review

87. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

List - II

- | | |
|----------|----------|
| A. Fruit | 1. Ovule |
|----------|----------|

B. Seed

C. Wood

D. Starch

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 2 | 1 | 3 | 4 |
| 2. | 4 | 1 | 3 | 2 |
| 3. | 2 | 3 | 1 | 4 |
| 4. | 4 | 3 | 1 | 2 |

2. Leaf

3. Stem

4. Ovary

88. The member of Shivaji's astha Pradhana who looked after foreign affairs was

1. Peshwa
2. Sachiv
3. Pandit Rao
4. Sumant

89. Panchayat Raj was first introduced in India in October, 1950 in

1. Rajasthan
2. Tamil Nadu
3. Kerala
4. Karnataka

90. Some people in Manipur live in houses built on

1. Tipis
2. Barkhans
3. Phoomdis
4. Izba

91. The Ashokan major rock edicts which tell us about the Sangam Kingdom include rock edicts

1. I and X
2. I and XI
3. II and XIII
4. II and XIV

92. Which one of the following east flowing rivers of India has rift valley due to down warping ?

1. Damodar
2. Mahanadi
3. Son
4. Yamuna

93. According to the World Development Report, low income economies and those for which the per capita GNP in 1994 was

1. US \$ 925 or less
2. US \$ 825 or less
3. US \$ 725 or less
4. US \$ 525 or less

94. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

List - II

- | | |
|-----------------------------------|--------------------|
| A. Theory of Mutation | 1. Beadk and Ttum |
| B. Theory of Evolution | 2. Jacob and Monod |
| C. One gene one enzyme hypothesis | 3. Darwin |
| D. Operon concept | 4. De Vries |

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 3 | 4 | 1 | 2 |
| 2. | 4 | 3 | 1 | 2 |
| 3. | 4 | 3 | 2 | 1 |
| 4. | 3 | 4 | 2 | 1 |

95. What is the correct sequence of the following events ?

1. Tilak's Home Rule League
2. Kamagatamaru incident
3. Mahatma Gandhi's arrival in India

Codes :

- a. 1, 2, 3 b. 3, 2, 1 c. 2, 1, 3 d. 2, 3, 1

96. An accurate clock shows the time as 3.00. After hour hand has moved 135° the time would be

1. 7.30
2. 6.30
3. 8.00
4. 9.30

97. The loss of Qandhar was a big blow to the Mughal empire from the view point of

1. Natural resources
2. Buffer territory
3. Communication
4. Strategic stronghold

98. A tree species in Mauritius failed to reproduce because of the extinction of a fruit - eating bird. Which one of the following was that bird ?

1. Dove 2. Dodo 3. Condor 4. Skua

99. Which of the following pairs are correctly matched?

1. Mrichchakatikam - Shudraka
2. Buddhacharita - Vasuvandhu
3. Mudrarakshasha - Vishakhadatta
4. Harshacharita - Banabhatta

Select the correct answer using the codes given below

Codes :

- a. 1, 2, 3 and 4 2. 1, 3 and 4
c. 1 and 4 4. 2 and 3

100. Forest areas have been labelled as 1, 2, 3 and 4 in the rough outline map given :

Map

Among these, those which were threatened in 1997 by a serious epidemic include

1. Teak forests of 3 and 4
2. Oaks forests of 1 and sal forests of 2
3. Sal forests of 3
4. Sandalwood forests of 4

101. Simon Commission of 1927 was boycotted because

1. There was no Indian member in the Commission
2. It supported the Muslim League
3. Congress felt that the people of India are entitled to Swaraj
4. There were differences among the members

102. The current price index (base 1960) is nearly 330. This means that

1. All items cost 3.3 times more than what they did in 1960
2. The prices of certain selected items have gone upto 3.3 times
3. Weighted mean of prices of certain items has increased 3.3 times
4. Gold price has gone up 3.3 times

103. Figure

In the above set of figures (I) to (IV), some parts are shown to change their position a regular direction. Following the same sequence, which one of the following will appear at the fifth stage ?

Figures

104. The Indian Muslims, in general, were not attracted to the Extremist movement because of the

1. Influence of Sir Sayyid Ahmed Khan
2. Anti-Muslim attitude of Extremist leaders
3. Indifference shown to Muslim aspirations
4. Extremists' policy of harping on Hindu past

105. Which of the following statements regarding starch and cellulose is NOT correct ?

1. Both of them are of plant origin
2. Both of them are polymers
3. Both of them give colour with iodine
4. Both of them are made up of glucose molecules

106. Commercial production of mineral oil has started recently in which of the areas of India, labelled 1, 2, 3 and 4 in the rough map given below :

Map

1. 1 2. 3 3. 3 4. 4

107. Examine the following statements :

1. All members of Mohan's family are honest
2. Some members of Mohan's family are not employed
3. Some employed persons are not honest
4. Some honest persons are not employed

Which one of the following inferences can be drawn from the above statements.

1. All members of Mohan's family are employed.
2. The Employed Members of Mohan's family are honest
3. The Honest Members of Mohan's family are not employed
4. The Employed members of Mohan's family are not honest

108. The banks are required to maintain a certain ratio between their cash in hand and total assets. This is called

1. SBR (Statutory Bank Ratio)
2. SLR (Statutory Liquid Ratio)
3. CBR (Central Bank Reserve)
4. CLR (Central Liquid Reserve)

109. Ergotism is due to consumption of

1. Contaminated grains 2. Rotting vegetables
3. Contaminated water 4. Stale Cooked food

110. What is the correct chronological order in which the following appeared in India ?

1. Gold coins 2. Punch - marked silver coins
3. Iron plough 4. Urban culture

Select the correct answer using the codes given below :

Codes :

- a. 3, 4, 1, 2 b. 3, 4, 2, 1
c. 4, 3, 1, 2 d. 4, 3, 2, 1

111. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Minerals)

A. Graphite

B. Lead

C. Salt

D. Silver

Codes :

List - II

(Mining area)

1. Bellary

2. Didwana

3. Rampa

4. Zanwar

	A	B	C	D
1.	3	4	1	2
2.	1	4	2	3
3.	3	1	4	2
4.	2	3	1	4

112. In a dinner party both fish and meat were served. Some took only fish and some only meat. There were some vegetarians who did not accept either. The rest accepted both fish and meat. Which one of the following logic diagrams correctly reflects the above situation ?

1. Figures

113. Which one of the following events was characterised by Montague as 'Preventive Murder' ?

1. Killing of INA activists
2. Massacre of Jallianwala Bagh
3. Shooting of the Mahatma
4. Shooting of Curzon - Wythe

114. Fawazil in the Sultanate period meant

1. Extra payment made to the nobles
2. Revenue assigned in lieu of salary
3. Excess amount paid to the exchequer by the iqtdars
4. Illegal exactions extracted from peasants

115. The discovery of Oak flora in 1966 added a new chapter to the history of Indian Sericulture. Which one of the following States is the leading producer of Oak tasar silk ?

1. Assam
2. Bihar
3. Manipur
4. Orissa

116. What is the correct sequence of the following events ?

1. The August offer
 2. The I.N.A. trial
 3. the Quit India Movement
 4. The Royal Indian Naval Ratings Revolt
- Select the correct answer using the codes given below.

1. 1, 3, 2, 4
2. 3, 1, 2, 4
3. 1, 3, 4, 2
4. 3, 1, 4, 2

117. Noble prize in Economics for the year 1997 was awarded for contribution in the area of :

1. International Economics
2. Financial Economics
3. Public Economics
4. Development Economics

118. Match List I with List II and select the correct answer using the codes given below the lists.

- | | |
|-----------------|-------------------|
| List - I | List - II |
| (Places) | (Industries) |
| A. Jamnagar | 1. Aluminium |
| B. Hospet | 2. Woolen Textile |
| C. Korba | 3. Fertilizers |
| D. Haldia | 4. Cement |
| | 5. Iron and Steel |

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 4 | 3 | 1 | 2 |
| 2. | 2 | 5 | 1 | 3 |
| 3. | 4 | 5 | 2 | 1 |
| 4. | 2 | 1 | 4 | 3 |

119. The Complete conversion of glucose in the presence of oxygen into carbn dioxide and water with release of energy is called

1. Aerobic respiration
2. Anaerobic respiration
3. Glycolysis
4. Hydrolysis

120. Which one of the following defines extremist during the early phase of Indian freedom movement?

1. Stimulating the production of indigenous articles by giving them preference over imported commodities
2. Obtaining self-government by aggressive means in place of petitions and constitutional ways
3. Providing national education according to the requirements of the country
4. Organising coups against the British empire through military revolt

121. In the vicinity of Mumbai, a number of specialised towns have been developed, Match the lists of specialisation with towns and select the correct

answer using the codes given below the lists :

List - I

(Towns)

A. Alibag

B. Balapur

C. Nhava sheva

D. Ratnagiri

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 1 | 3 | 2 | 4 |
| 2. | 2 | 3 | 4 | 1 |
| 3. | 3 | 4 | 2 | 1 |
| 4. | 2 | 1 | 4 | 3 |

List - II

(Specialiation)

1. Fishing centre

2. Holiday resort

3. Petro-chemical complex

4. Port

122. The accounting year of the Reserve Bank of India is :

1. April - March
2. July - June
3. October - September
4. January - December

123. The Sultan of Delhi who is reputed to have built the biggest network of canals in India was

1. Iltutmish
2. Ghiyasuddin Tughlaq
3. Feroz Shah Tuglaq
4. Sikandar Lodi

124. The major chemical compound found in human kidney stones is

1. Uric acid
2. Calcium carbonate
3. Calcium oxalate
4. Calcium sulphate

125. Which of the following pairs are correctly matched?

1. Theodore Beck : Mohammadan Anglo-Oreintal College, Aligarh
2. Ilbert Bill : Rippon
3. Pherozeshah Mehta : Indian National Congress
4. Badruddin Tyabji : Muslim League

Select the correct answer using the codes given below :

Codes :

1. 1, 2, 3 and 4
2. 2 and 4
3. 1, 3 and 4
4. 1, 2 and 3

126. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

(Agricultural products)

A. Cotton

B. Gram

C. Gram

D. Pineapple

Codes :

- | | | | | |
|----|---|---|---|---|
| | A | B | C | D |
| 1. | 2 | 1 | 3 | 2 |
| 2. | 2 | 1 | 3 | 4 |
| 3. | 1 | 2 | 4 | 3 |
| 4. | 1 | 2 | 3 | 4 |

List - II

(Foremost producer)

1. Madhya Pradesh

2. Gujarat

3. West Bengal

4. Kerela

127. Which of the following is the correct swquence of decreasing order of the given currencies in terms of their value in Indian Rupees ?

1. US dollar, Canadian dollar, New Zealand dollar, Hong Kong dollar
2. US dollar, New Zealand dollar, Canadian dollar,

HongKong dollar

3. US dollar, Hong Kong dollar, NewZealand dollar, Canadian dollar

4. US dollar, Hong Kong dollar, Canadina dollar, new Zealand dollar

128. 'Eco mark' is given to the Indian products that are

1. Pure and uadulterated 2. Rich in proteins
3. Environment friendly 4. Economically viable

129. A, B, C, D, E, F and G are members of a family consting of four adults and three children, two whom, f and G are girls. A and D are brothers and A is doctor. E is an engineer married to one of the brothers and has two children, B is married to D and G is their child. Who is C ?

1. G's brother 2. F's father
3. E's daughter 4. A's son

130. Capital Account Convertibility of the Indian rupee implies

1. That the Indian rupee can be exchanged by the authorised dealers for travel
2. That the Indian rupee can be exchanged for any major currency for the purpose of trade in goods and services
3. That the Indian rupee can be exchanged for any major currency for the purpose of trading financial assets
4. None of the above

131. What are the official languages of the UNO ?

1. English, French and Russian
2. English, French, German and Russian
3. English, French, Russian, Chinese and Hindi
4. English, French, Chinese, Russian, Ababic and Spanish

132. The rough outline map given shows centres of cement industry labelled 1, 2, 3 and 4. Match these centres with the following sets of names :

Map

Names :

1. Katni 2. Tirunelveli
3. Sikka 4. Churk

Select the correct answer using the codes given below :

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 3 | 4 | 2 | 1 |
| 2. | 2 | 4 | 1 | 3 |
| 3. | 1 | 2 | 4 | 3 |
| 4. | 2 | 3 | 1 | 4 |

133. "The Congress is tottering to its fall and one of my great ambitions while in India, is to assist it to a peaceful demise." This statement is attributed to

1. Lord Dufferin 2. Lord Curzon
3. Lord Lytton 4. None of these

134. Economies Survey in India is published officially, every year by the

1. Reserve Bank of India
2. Planning Commision of India
3. Ministry of Finance, Govt. of India

4. Ministry of Industries, Govt. of India

135. One Astronomical Unit is the average distance between

1. Earth and the Sun 2. Earth and the Moon
3. Jupiter and the Sun 4. Pluto and the Sun

136. Which of the following ports shown on the rough outline map of India is a riverline port ?

MAP

1. 1 2. 2 3. 3 4. 4

137. Who was the leader of the Ghaddar Party ?

1. Bhagat Singh 2. Lala Hardayal
3. Bal Gangadhar Tilak 4. V.D. Savarkar

138. Which of the following parties were not a part of the United Front which was in power during '96-97' ?

1. Bahujana Samaj Party
2. Samata Party
3. Haryana Vikas Party
4. Assam Gana Parishad

Select the correct answer using the codes given below :

Codes :

1. 1, 2, 3 and 4 2. 1, 2 and 3
3. 3 and 4 4. 1 and 2

139. World Environmental Conference to discuss global warming was held in 1997 in

1. Stockholm 2. Rio de Janeiro
3. Paris 4. Kyoto

140. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

List - II

- | | |
|-----------------|-----------------------|
| A. Blue Vitriol | 1. Sodium bicarbonate |
| B. Epsom salt | 2. Sodium hydroxide |
| C. baking soda | 3. Magnesium sulphate |
| D. Caustic soda | 4. Copper Sulphate |

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 3 | 4 | 2 | 1 |
| 2. | 4 | 3 | 2 | 1 |
| 3. | 3 | 4 | 1 | 2 |
| 4. | 4 | 3 | 1 | 2 |

141. The water pollution in river is measured by the dissolved amount of

1. Chlorine 2. Ozone
3. Nitrogen 4. Oxygen

142. Some time back, the Government of India, decided to delicense 'White goods' industry. 'White goods' include

1. Stainless steel and aluminium utensils
2. Milk and milk products
3. Item purchased for conspicuous consumption
4. Soaps, detergents and other mass consumption goods

143. Examine the following three statements :

1. Processed meat is a perishable food
2. All perishable foods are packed in sealed tins
3. Sealed this sometimes do not contain processed meat

Which one of the following inferences can be drawn from the above statements ?

1. Sealed tins always contain perishable food
2. Processed meat is sometimes not packed in sealed tins
3. Processed meat is always packed in sealed tins
4. Non-perishable foods are never packed in sealed tins

144. what is correct sequence of the following in Indian States in descending order of their length of surface roads per 100 km² of their area ?

1. Haryana
2. Maharashtra
3. Punjab
4. Tamil Nadu

Select the correct answer using to codes given below :

Codes :

1. 4, 3, 2, 1
2. 4, 3, 1, 2
3. 3, 4, 1, 2
4. 3, 4, 2, 1

145. Match List I with List II and select the correct answer using the codes given below the lists.

List - I

- A. Potassium bromide
- B. Potassium Nitrate
- C. Potassium Sulphate
- D. Mono potassium tartarate

List - II

1. Fertiliser
2. Photography
3. Bakery
4. Gunpowder

Codes :

- | | A | B | C | D |
|----|---|---|---|---|
| 1. | 2 | 4 | 1 | 3 |
| 2. | 2 | 4 | 3 | 1 |
| 3. | 4 | 2 | 3 | 1 |
| 4. | 4 | 2 | 1 | 3 |

146. The four railway junctions shown by numerals 1, 2, 3, 4 on the rough outline map of Gujarat are respectively

1. Palanpur, Mahesana, Ahmedabad and Vadodara
2. Mahesana, Surendranagar, Rajkot and Junagarh
3. Palanpur, Kanda, Bhuj and Okla

4. Ahmedabad, Vadodara, Bhavnagar and Broach

147. The damage of the Spektr Module of the Russian Space Station Mir was due to

1. Collision with a Soyuz cargo ship
2. Faulty material design of the Spektr Module
3. Explosion inside the space station
4. Collision with an asteroid

148. The misery index is the sum of a country's unemployment and inflation rate. the higher the index, the more miserable is the country to live in. The figure given below is the Misery Index for various countries in Europe :

Graph

which of the following conclusions can be drawn from the misery index given above ?

1. Britain is the most miserable country to live in
2. The inflation rate in Spain is less than that in Belgium and Britain
3. Italy and France seem to have almost identical unemployment rate
4. The higher the misery index the higher the inflation rate

Select the correct answer using the codes given below :

Codes :

1. 1 alone
2. 2 and 3
3. 1, 2, 3 and 4
4. None

149. The meeting of G-15 countries held in Malaysia in 1997 was attended by

1. 14 member countries
2. 14 member countries
3. 16 member countries
4. 17 member countries

150. Olympics 2004 is to be held in

1. Johannesburg
2. Capetown
3. Rome
4. Sydney

ANSWERS

- | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1) 3 | 2) 1 | 3) 4 | 4) 2 | 5) 3 | 6) 3 | 7) 3 | 8) 1 | 9) 4 | 10) 3 |
| 11) 2 | 12) 3 | 13) 1 | 14) 1 | 15) 2 | 16) 1 | 17) 1 | 18) 3 | 19) 4 | 20) 4 |
| 21) 2 | 22) 2 | 23) 4 | 24) 3 | 25) 2 | 26) 3 | 27) 3 | 28) 2 | 29) 1 | 30) 3 |
| 31) 3 | 32) 1 | 33) 1 | 34) 2 | 35) 4 | 36) 3 | 37) 2 | 38) 3 | 39) 3 | 40) 1 |
| 41) 3 | 42) 1 | 43) 3 | 44) 1 | 45) 2 | 46) 1 | 47) 2 | 48) 2 | 49) 3 | 50) 1 |
| 51) 1 | 52) 4 | 53) 1 | 54) 2 | 55) 3 | 56) 4 | 57) 1 | 58) 4 | 59) 3 | 60) 4 |
| 61) 2 | 62) 1 | 63) 2 | 64) 1 | 65) 2 | 66) 3 | 67) 3 | 68) 3 | 69) 4 | 70) 1 |
| 71) 1 | 72) 2 | 73) 4 | 74) 4 | 75) 2 | 76) 4 | 77) 3 | 78) 4 | 79) 2 | 80) 4 |
| 81) 4 | 82) 4 | 83) 4 | 84) 3 | 85) 1 | 86) 4 | 87) 2 | 88) 4 | 89) 1 | 90) 3 |
| 91) 3 | 92) 2 | 93) 3 | 94) 2 | 95) 4 | 96) 1 | 97) 3 | 98) 4 | 99) 2 | 100) 3 |
| 101) 1 | 102) 3 | 103) 3 | 104) 4 | 105) 3 | 106) 3 | 107) 2 | 108) 2 | 109) 1 | 110) 4 |
| 111) 2 | 112) 1 | 113) 2 | 114) 3 | 115) 1 | 116) 1 | 117) 2 | 118) 2 | 119) 1 | 120) 2 |
| 121) 2 | 122) 2 | 123) 3 | 124) 3 | 125) 4 | 126) 1 | 127) 1 | 128) 3 | 129) 4 | 130) 3 |
| 131) 4 | 132) 2 | 133) 2 | 134) 3 | 135) 1 | 136) 4 | 137) 2 | 138) 2 | 139) 4 | 140) 4 |
| 141) 4 | 142) 3 | 143) 3 | 144) 1 | 145) 1 | 146) 2 | 147) 1 | 148) 2 | 149) 3 | 150) ? |