

# KERALA UNIVERSITY ASSISTANT GRADE II 2005

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1. B.R. Ambedkar was elected to the Constituent Assembly from:  
(a) West Bengal (b) The then Bombay Presidency  
(c) The then Madhya Bharat (d) Punjab
2. Gupta dynasty was famous for:  
(a) Art and Architecture (b) Imperialism  
(c) Patronage of literary work (d) Revenue and land reforms
3. The main religious practice of the Vedic Age was:  
(a) Cow worship (b) Temple construction  
(c) Performance of yagna (d) Pilgrimage
4. The Directive Principles of the Indian constitution aim at:  
(a) Ensuring strengthening of the country's independence.  
(b) Ensuring individual liberty.  
(c) Providing a social and economic base for genuine democracy in the country.  
(d) The achievement of all these objectives.
5. Which of the following is a mixed fertiliser?  
(a) CAM (b) Ammonium Sulphate  
(c) Urea (d) NPK
6. World Environment Day is observed on:  
(a) 5, June (b) 5, May (c) 5, July (d) 10, June
7. Name the computer worm that hit the world computers on May 1, 2004.  
(a) Sasser (b) Repot (c) Alissa (d) Waling
8. In which William Wordsworth's poem does the much quoted phrase, "The child is the father of the man" appear?  
(a) The Daffodils (b) The Rainbow  
(c) The Skylark (d) The Solitary Reaper
9. Name the world's first dedicated education satellite launched by India.  
(a) Eduinsat (b) Eduvsinsat (c) Edusat (d) EduSAC
10. Name the country which will host the World Football Championship in 2010.  
(a) Australia (b) South Africa (c) Brazil (d) New Zealand
11. According to the NRS - 2005, only business paper in the list of 10 highest read English Newspapers is:  
(a) Hindu Business Line (b) The Economic Times  
(c) Financial Express (d) Business Standard
12. ATM stands for:  
(a) Automatic Teller Machine (b) Any Time Machine  
(c) Automated Teller Machine (d) None of the above
13. Name of the Indian Brand which has been declared the Best Brand of Telecommunication in World Communication Award 2004.  
(a) VSNL (b) Airtel (c) Hutch (d) Idea
14. In which year the speed post was launched?  
(a) 1985 (b) 1986 (c) 1976 (d) 1975
15. How many services presently come under the ambit of service tax?  
(a) 75 (b) 74 (c) 71 (d) 72
16. 'Rozgar Badhao' is the slogan launched by which Prime Minister?  
(a) Manmohan Singh (b) Rajiv Gandhi  
(c) Indira Gandhi (d) Atal Behari Vajpayee

17. Name the author of the book "Governance and the Scelerosis that has set in".  
 (a) Sharad Pawar (b) Gopal K. Gandhi  
 (c) Kapil Sibal (d) Arun Shourie
18. What is the eighth term of the sequence 1, 4, 9, 16, 25, .....?  
 (a) 8 (b) 64 (c) 128 (d) 200
19. If  $x$  is a positive number, which of the following fractions has the greatest value?  
 (a)  $x/x$  (b)  $(x+1)/x$  (c)  $x/(x+1)$  (d)  $(x+2)/(x+3)$
20. Naval Academy is located at:  
 (a) Cochin (b) Mumbai (c) Chennai (d) Kolkata
21. Which country won the silver medal for Hockey in Athens Olympic 2004?  
 (a) Australia (b) Pakistan  
 (c) The Netherlands (d) Germany
22. 'Centrino' is related to:  
 (a) Mobile technology (b) Photography  
 (c) Biotechnology (d) None of the above
23. 'Cartosat' is related to:  
 (a) Cartoon (b) Mapping  
 (c) Transportation (d) None of the above
24. Sania Mirza is an Indian star in the field of:  
 (a) Badminton (b) Tennis  
 (c) Table Tennis (d) None of the above
25. One MB in computer memory is:  
 (a) 100 KB (b) 1024 KB (c) 1000 KB (d) None of the above
26. To be extremely interesting:  
 (a) Captivate (b) Capture  
 (c) Cantankerous (d) Dazzling
27. To lead a simple life:  
 (a) Sparse (b) Spartan (c) Scurrilous (d) Spawn
28. To make one feel less tired:  
 (a) Retire (b) Exhaust (c) Suffer (d) Refresh
29. To feel very happy:  
 (a) Content (b) Euphoria  
 (c) Satisfaction (d) Morose
30. To please one by - praising:  
 (a) Reputation (b) Fawn (c) Redeem (d) Glorious

**Questions : 31 to 35 have four words each. Three of the words can be grouped together on the basis of commonality. One word does not belong to the group, Find out that word.**

31. (a) P.T. Usha (b) Anju George  
 (c) O.V. Vijayan (d) Shiny Wilson
32. (a) Paris (b) London (c) Moscow (d) Toronto
33. (a) Baharain (b) Saudi Arabia (c) U.A.E. (d) West Indies
34. (a) Mars (b) Saturn (c) North Star (d) Jupiter
35. (a) Kumarakom (b) Kovalam (c) Maldives (d) Thekkady

Choose the correct answer from the alternatives given to fill in the blank space.

36. 1, 7, 14; 5, 12, 20.....  
 (a) 9, 15, 22 (b) 8, 15, 23 (c) 9, 17, 26 (d) 9, 21, 30
37. ACEG, BDFH,.....

- (a) CEGI                      (b) CFHI                      (c) DFHJ                      (d) EFGH
38. The rules required that who had held office for two consecutive years was not ..... for re-election.  
 (a) admissible              (b) permissible              (c) eligible              (d) accessible
39. Unhygienic surroundings..... health problems.  
 (a) give rise to              (b) bring into being              (c) call for              (d) set in
40. All our efforts to persuade grandfather to come and stay with us were of no.....  
 (a) effect              (b) avail              (c) result              (d) purpose
41. The motion was ..... by seven votes to two, with one abstention.  
 (a) allowed              (b) proposed              (c) voted              (d) carried
42. Population increase ..... with depletion of foreign reserves has led to greater hardships  
 (a) joined              (b) mixed              (c) added              (d) coupled

Read the following passage carefully and select the right answer from among the given alternatives:

We in India have our own special problems. No one can deny that some of them are of a serious nature and must be attacked with *vigour* and determination. Our national objectives have been defined clearly. We aim at providing every citizen with the basic necessities and complete freedom to lead a life of his or her own choice. We aim to create a democratic society, strong and free, in which every citizen, irrespective of his religious beliefs, will occupy an equal and honoured place, and be given full equal opportunities for growth and service. We aim at ending untouchability and doing away with the present inequalities of status and wealth. We are opposed to the concentration of wealth in a few hands.

43. This passage could most probably be a part of:  
 (a) The Indian Constitution                      (b) A book on political science  
 (c) A speech                      (d) A personal letter
44. According to the author, our national objective is to:  
 (a) Create equal opportunities for all.  
 (b) End economic exploitation in the country.  
 (c) Promote individual freedom and prosperity.  
 (d) Promote democracy, socialism and secularism.
45. Pick out the wrong statement:  
 (a) The problems of Indians are like anyone else's.  
 (b) Some of our problems can be handled only by strong people.  
 (c) Our goal is to build an India free from economic exploitation.  
 (d) There is no uncertainty about our national objectives.
46. The italicised word *vigour* means:  
 (a) force                      (b) enthusiasm  
 (c) physical health                      (d) Forcefulness of language

**Select the sentence or part of a sentence which is grammatically correct from the given alternatives. Identify the right answer among the four given choices.**

47. (a) If the doctor had come in time, the patient *will not die*.  
 (b) If the doctor had come in time, the patient *would not die*.  
 (c) If the doctor had come in time, the patient *would not have died*.  
 (d) If the doctor had come in time, the patient *would have died*.
48. (a) Would you mind *to help* me in my difficulties?  
 (b) Would you mind *help* me in my difficulties?  
 (c) Would you mind *helping* in my difficulties?  
 (d) Would you mind *will help* in my difficulties?
49. (a) I made him *retyping* the letter.  
 (b) I made him *to retype* the letter.  
 (c) I made him *retyped* the letter.  
 (d) I made him *retype* the letter.

**Choose the correct word from the alternatives to fill in the blank space.**

50. Hundred miles ..... not a great distance.  
 (a) is (b) are (c) can (d) will
51. I have not seen my brother ..... six months.  
 (a) since (b) for (c) in (d) from
52. The four brothers quarrelled..... themselves.  
 (a) with (b) between (c) for (d) among
53. He is an engineer working ..... Palghat.  
 (a) at (b) in (c) around (d) on
54. All colleges will reopen..... tomorrow.  
 (a) on (b) at (c) since (d) from
55. I shall come ..... Easter.  
 (a) for (b) at (c) on (d) during
56. If the area of a triangle with base  $x$  is equal to the area of the square with side  $x$ , then the altitude of the triangle is ,  
 (a)  $\frac{x}{2}$  (b)  $x$  (c)  $2x$  (d)  $3x$
57. After travelling 27km, Rajan found that  $\frac{2}{5}$  of his journey was still left. The length of the whole journey is:  
 (a) 135 (b) 45 (c) 18 (d) 27
58. How many bricks each measuring  $25 \text{ cm} \times 11.25 \text{ cm} \times 6 \text{ cm}$  will be needed to build a 8 metre long, 6 metre height and 22.5 cm thick wall?  
 (a) 5600 (b) 6000 (c) 6400 (d) 7200
59. A train 140 m long running at 60km/hr. The time taken to pass a tunnel of length 260m long is :  
 (a) 24 seconds (b) 25 seconds (c) 28 seconds (d) 30 seconds
60. A mother is 22 years older than her son. If after 3 years the mother's age will be three times that of her son, the son's age at present will be:  
 (a) 8 (b) 9 (c) 10 (d) 11
61. The values of  $x$  and  $y$  if  $x - y = 9$ ;  $3x + 2y = 2$  are respectively,  
 (a) 3, -6 (b) -5, 4 (c) 4, -5 (d) 5, -4
62. What will be the next number in the following series of numbers 2, 5, 7, 12, 19....?  
 (a) 26 (b) 31 (c) 38 (d) 24
63. What will be the next number in the following series of numbers 13, 16, 22, 31, ...?  
 (a) 43 (b) 40 (c) 58 (d) 46
64. A merchant sold a radio of cost Rs. 70 at the price of Rs. 98. The profit is:  
 (a) 28% (b)  $28\frac{1}{2}\%$  (c)  $19\frac{3}{5}\%$  (d) 40%
65. If  $p = 8$ ,  $q = 3$  and  $r = -2$ , then the value of  $\frac{2pq - 7qr}{pq + 4pr}$  is:  
 (a)  $\frac{-9}{4}$  (b)  $\frac{-3}{20}$  (c)  $\frac{15}{14}$  (d)  $\frac{1}{14}$

66. If the circumference and the area of a circle are numerically equal then the numerical value of the diameter is:  
 (a) 1 (b) 2 (c) 4 (d) 16
67.  $\frac{1}{x} - \frac{1}{y} = \frac{1}{z}$ , then z equals to:  
 (a)  $\frac{xy}{y-x}$  (b)  $\frac{x-y}{xy}$  (c)  $\frac{y-x}{xy}$  (d)  $\frac{x-y}{y-x}$
68. The difference of two numbers is 26 and one number is thrice the other, one of the number is:  
 (a) 24 (b) 26 (c) 13 (d) 28
69. There are 50 boys in a class whose average age is 12 years. There are 40 boys in another class whose average age is 15 years. The average age of both the classes taken together is:  
 (a) 13 years 3 months (b) 13 years 4 months  
 (c) 13 years (d) 13 years 9 months
70. The price of an article is increased by 25%, the increase is Rs. 10, then the new price is:  
 (a) Rs. 30 (b) Rs. 40 (c) Rs. 50 (d) Rs. 60
71. Three times a number increased by 8 is as twice the number increased by 15. The number is:  
 (a) 23 (b) 17 (c) 8 (d) 7
72. The total surface area of a cube is 726 cm<sup>2</sup>, the volume of the cube is:  
 (a) 1331cm<sup>3</sup> (b) 121 cm<sup>3</sup> (c) 14641 cm<sup>3</sup> (d) 11cm<sup>3</sup>
73. One angle of a rhombus is 58°. The other angles are:  
 (a) 244°, 58°, 244° (b) 122°, 58°, 122° (c) 32°, 58°, 32° (d) 64°, 58°, 64°
74. From a stick of length 6p<sup>2</sup> + 4p + 2, two pieces each of length 3p<sup>2</sup> + 2 are cut off. The length of the remaining part of the stick is:  
 (a) 4p (b) 4p+2 (c) 3p<sup>2</sup> + 4p (d) 4p - 2
75. In a class, there are 45 children, 20 of those have offered Science but not History where as 30 have offered Science. The number of students who have offered History but not Science is:  
 (a) 15 (b) 25 (c) 10 (d) 5
76. Two numbers are in the ratio 4 : 5. If '8' is added to the numbers they forms the ratio 6 : 7. The numbers are:  
 (a) 8 and 10 (b) 12 and 15 (c) 16 and 20 (d) 18 and 21
77. 2<sup>7</sup> + 2<sup>7</sup> + 2<sup>7</sup> + 2<sup>7</sup> is equal to:  
 (a) 2<sup>9</sup> (b) 16<sup>7</sup> (c) 2<sup>28</sup> (d) 8<sup>7</sup>
78. The value of n so that  $\left(\frac{3}{5}\right)^4 - \left(\frac{3}{4}\right)^3 = \left(\frac{3}{5}\right)^{2n-1}$   
 (a)  $\frac{13}{2}$  (b) 4 (c) 6 (d) 8
79. 60 is 2% of:  
 (a) 30,000 (b) 1,20,000 (c) 300 (d) 1,200
80. Which must be added to  $\frac{x}{y}$  to make it  $\frac{y}{x}$ ?  
 (a)  $\frac{y^2 - x^2}{xy}$  (b)  $\frac{y-x}{y^2 - x^2}$  (c)  $\frac{x^2 - y^2}{xy}$  (d)  $\frac{x-y}{y^2 x^2}$
81. What is the abbreviation of CPU in a computer?

- (a) Central Project Unit (b) Communication Project Unit  
(c) Central Processing Unit  
(d) Communication Processing Unit
82. What keyboard command is used to copy and paste a word?  
(a) Ctrl + C & Ctrl + P (b) Ctrl + C & Ctrl + V  
(c) Ctrl + X & Ctrl + V (d) Ctrl + V & Ctrl + C
83. How do we create a new document in MS-Word from the menu bar?  
(a) File + New (b) File + Open (c) File + Save (d) None
84. What is the total capacity of a floppy drive?  
(a) 1.41 MB (b) 1.42 MB (c) 1.43 MB (d) 1.44 MB
85. What is the purpose of the e-mail?  
(a) Sending and receiving messages (b) Searching for letter  
(c) Viewing letters (d) None
86. FTP is for:  
(a) Deleting a file (b) Renaming a file (c) Viewing a file  
(d) Transferring files from one system to another system
87. What command is used to save a file from the menu bar?  
(a) File + Print (b) File + Close (c) File + Save (d) File + Exit
88. What is the command to create a directory in DOS?  
(a) cd directory name (b) md directory name (c) crdir directory name  
(d) mkdir directory name
89. What is the address given to a computer connected to a network called?  
(a) System Address (b) Process ID (c) SYSID (d) IP Address
90. Cursor is a :  
(a) Thin blinking line (b) Pixel (c) Pointing device  
(d) None
91. Which device is used as the standard pointing device in a Graphical User Environment?  
(a) Keyboard (b) Mouse (c) Joystick (d) Track ball
92. Which of the following devices have a limitation that we can only information to it but cannot erase or modify it?  
(a) CDROM (b) Hard Disk (c) Tape Drive (d) Floppy Disk
93. Which technology is used in compact disks?  
(a) Mechanical (b) Laser (c) Electrical  
(d) Electro Magnetic
94. Which of the following storage devices can store maximum amount of data?  
(a) Floppy Disk (b) Hard Disk  
(c) Compact Disk (d) Magnetic Disk
95. Excel files have a default extension of:  
(a) XLS (b) DOS (c) DOC (d) PPT

## Answers

1. (a) 2. (c) 3. (c) 4. (c) 5. (d) 6. (a)  
7. (a) 8. (b) 9. (c) 10. (b) 11. (b)  
12. a, c എന്നിവ ശരിയുത്തരങ്ങളാണ്.  
13. (b) 14. (b) 15. ശരിയുത്തരം (80) 16. (a) 17. (d) 18. (b)  
19. (b)

20. തന്നിരിക്കുന്നവയിൽ ശരിയുത്തരമില്ല. ശരിയുത്തരം: ഗോവ (ഐ.എൻ.എസ്. മൺഡോവി)
21. (c) 22. (a) 23. (b) 24. (b) 25. (b) 26. (a)  
 27. (b) 28. (d) 29. (b) 30. (b) 31. (c) 32. (d)  
 33. (d) 34. (c) 35. (d) 36. (c) 37. (a) 38. (b)  
 39. (a) 40. (b) 41. (d) 42. (d) 43. (c) 44. (c)  
 45. (a) 46. (a) 47. (c) 48. (c) 49. (d) 50. (a)  
 51. (b) 52. (a) 53. (a) 54. (d) 55. (c)  
 56. (c)

$$\frac{1}{2} \text{ base} \times \text{altitude} = \frac{1}{2} xh = x^2$$

$$h = \frac{x^2 \times 2}{x} = 2x$$

57. (b)

$$\text{യാത്രയുടെ ദൂരം} \times \left(1 - \frac{2}{5}\right) = 27\text{km.}$$

$$\text{യാത്രയുടെ ദൂരം} \times \frac{3}{5} = 27$$

$$\text{യാത്രയുടെ ദൂരം} = \frac{27 \times 5}{3} = 45\text{km}$$

58. (c)

$$\text{നീളത്തിൽ വേണ്ട ഇഷ്ടിക} = \frac{800\text{cm}}{25\text{cm}} = 32 \text{ എണ്ണം.}$$

$$\text{ഉയരത്തിൽ വേണ്ട ഇഷ്ടിക} = \frac{600}{6} = 100 \text{ എണ്ണം.}$$

$$\text{ആകെ ഇഷ്ടിക} = 32 \times 2 \times 100 = 6400 \text{ എണ്ണം}$$

59. (a)

$$\text{ട്രെയിനിന്റെ നീളം} + \text{ടണലിന്റെ നീളം} = 140 + 260 = 400\text{m}$$

$$60\text{km/hr} = \frac{60 \times 5}{18} \text{ m/s} = \frac{50}{3} \text{ m/s}, 50 \text{ മീറ്റർ ഓടാൻ 1 സെക്കന്റ്}$$

$$400 \text{ മീറ്റർ ഓടാൻ വേണ്ട സമയം} = \frac{400 \times 3}{50} = 24 \text{ sec}$$

60. (a)

അമ്മയുടെ വയസ്സ് 'm', മകന്റെ വയസ്സ്, 's'

$$m = s + 22$$

മൂന്നുകൊല്ലം കഴിഞ്ഞാൽ

$$m + 3 = 3(s + 3)$$

$$3(s + 3) = s + 22 + 3$$

$$3s + 9 = s + 25$$

$$2s = 25 - 9 = 16, s = 8$$

ഉത്തരം (a)

61. (c)

$$x - y = 9 \text{ ——— (1)}$$

$$3x + 2y = 2 \text{ ——— (2)}$$

$$(1) \times (2) \Rightarrow 2x - 2y = 18 \text{ --- (3)}$$

$$(2) + (3) \Rightarrow 5x = 20$$

$$x = 4$$

$$y = x - 9 = 4 - 9 = -5$$

62.  $2+5=7, 5+7=12, 7+12=19, 12+19=31$  തൊട്ട് ഇടത്തുള്ള സംഖ്യയുമായി കൂട്ടുക.

ഉത്തരം (b)

63.  $13+3=16, 16+6=22, 2+9=31, 31+12=43$  തുടർച്ചയായി 3, 6, 9, 12 ഇവ കൂട്ടുക.

64. (d)

$$\text{ലാഭശതമാനം} = \frac{(\text{വിറ്റവില} - \text{വാങ്ങിയവില})}{\text{വാങ്ങിയവില}} \times 100$$

$$= \frac{(98-70)}{70} \times 100 = \frac{28}{70} \times 100 = 40\%$$

65. (a)

$$\frac{2pq - qr}{pq + 4pq} = \frac{2 \times 8 \times 3 - 7 \times 3 \times (-2)}{8 \times 3 + 4 \times 8 \times (-2)} = \frac{48 + 42}{24 - 64} = \frac{99}{-40} = \frac{-9}{4}$$

66. (c)

പരിധി  $2\pi r$ , വിസ്തീർണം  $\pi r^2$

$$2\pi r = \pi r^2$$

$$\therefore 2r = r^2, r = 2, d = 2r = 4$$

67. (a)

$$\frac{1}{z} = \frac{1}{x} - \frac{1}{y} = \frac{y-x}{xy}$$

$$z = \frac{xy}{y-x}$$

68. (c)

$$a - b = 26 \text{ ..... (1)}$$

$$a = 3b \text{ ..... (2)}$$

$$(1) \text{ ൽ } (2) \text{ ചേർക്കുക } \Rightarrow 3b - b = 26,$$

$$2b = 26, b = 13$$

69. (b) 50 പേരുടെ വയസ്സിന്റെ തുക =  $12 \times 50 = 600$

$$40 \text{ പേരുടെ വയസ്സിന്റെ തുക} = 15 \times 40 = 600$$

$$\text{ഈ 90 പേരുടെ വയസ്സിന്റെ തുക} = 1280$$

$$\text{ശരാശരി} = \frac{1280}{90} = 13\frac{1}{3}$$

$$= 13 \text{ വർഷം } 4 \text{ മാസം.}$$

70. (c) മുടക്കു മുതൽ  $\times \frac{25}{100} = 10$

$$\text{മുടക്കുമുതൽ} = \frac{10 \times 100}{25} = 40$$

$$\text{വാങ്ങിയ വില} = 40 + 10 = 50 \text{ രൂപ}$$

71. (d)  $3a + 8 = 2a + 15$

$$3a - 2a = 15 - 8 = 7$$

72. (a) ക്യൂബിന്റെ 6 മുഖങ്ങളുടെ വിസ്തീർണ്ണം =  $6a^2$

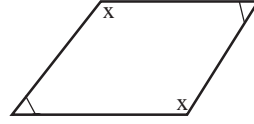
$$6 \times a^2 = 726 \text{ cm}^2$$

$$a^2 = \frac{726}{6} = 121, a = 11$$

$$a^3 = 11^3 = 1331 \text{ cm}^3$$



73. (b) റോംബസ്സിന്റെ എതിർ കോണുകൾ തുല്യം.  
സമീപ കോണുകളുടെ തുക  $180^\circ$ .  
 $58, 180^\circ - 58^\circ, 180^\circ - 58^\circ$  കോണുകൾ അതായത്.  
 $58^\circ, 122^\circ, 122^\circ$



74. (d)  
 $6p^2 + 4p + 2 - 2(3p^2 + 2) = 6p^2 + 4p + 2 - 6p^2 - 4 = 4p - 2$

75. (a)  
45 പേരിൽ 20 പേർ ശാസ്ത്രം എടുത്തു. ചരിത്രം എടുത്തില്ല. 30 പേർ ശാസ്ത്രം എടുത്തു. അതായത്  $45 - 30 = 15$  പേർ ശാസ്ത്രം എടുത്തില്ല.  
ഇവർ ചരിത്രം എടുത്തിരിക്കാം. (ചോദ്യത്തിനു വ്യക്തത പോരാ. ശാസ്ത്രമെടുക്കാത്തവർ എല്ലാം ചരിത്രമെടുത്തോ എന്ന് വ്യക്തമല്ല)

76. (c)  
സംഖ്യകൾ  $4x, 5x$  എന്നു കരുതുക.

$$\frac{4x+8}{5x+8} = \frac{6}{7},$$

$$28x + 56 = 30x + 48$$

$$30x - 28x = 56 - 48$$

$$2x = 8, x = 4$$

$$4x = 16, 5x = 20$$

77. (a)  
 $2^7 + 2^7 + 2^7 + 2^7 = 2^7(1+1+1+1) = 2^2 \times 2^7 = 2^9$

78. (-) ചോദ്യം വ്യക്തമല്ല

79. (ശരിയുത്തരമില്ല)  $\frac{a \times 2}{100} = 60$

$$a = \frac{60 \times 100}{2} = 3000$$

80. (a)  $\frac{y}{x} - \frac{x}{y} = \frac{y^2 - x^2}{xy}$

81. (a) Central Processing Unit.

82. (b) Ctrl + C & Ctrl + V.

83. (a) File + New

84. (d) 1.44MB.

85. (a) Sending and receiving messages

86. (d) 87. (c) 88. (b) 89. (d) 90. (a) 91. (b)

92. (a) 93. (b) 94. (b) 95. (a)