St. Vivekanand Lotus Valley Public School

Sec-18 Huda, Jagadhri

Dear Parent

Greetings!!

As schools are shut across the country, every house is a school and every parent is a teacher. So parents have an important role to play during Covid-19 pandemic.

Some suggestions to substitute children's screen time with-

1) Now is the time to get your kids interested in some books. Read with them and strike up a conversation with them.
2) Turn to nature and get them involved in gardening. Let children get creative with take away boxes and empty bottles.
3) Turn them into little chefs. Involve them in menu planning, get them to do some tasks.

So spend these holidays (from 11th June, 2020 to 19th June, 2020) creating a nurturing and stimulating environment filled with fun and frolic.

Guidelines for completing assignments 1 and 2

a) Please complete the assignment tasks in your subject notebook with proper date and heading.
b) Prepare a pdf and submit on the date specified.
c) Revise all the work done till date.

HOLIDAYS HOMEWORK (JUNE 2020-21)
CLASS-X

English

❖ Section A– Comprehension passage

❖ Section B–

❖ letter-writing

❖ gap filling

❖ error detection

❖ Section C–

❖ First Flight:Ch-1, 2, 3

❖ Poem:1, 2, 3

Footprints without feet:Ch-1, 2, 3

❖ Revise the syllabus

❖ Solve the assignments as uploaded

Hindi

1. स्पर्श भाग -2 पाठ-2,3,6 दोहराई के लिए
   गद्य भाग पाठ -7,8 पठन के लिए
   काव्य भाग कविता -2,3,7 दोहराई के लिए
   कविता – 4,5 पठन के लिए
   संचयन पाठ 1,2 पठन के लिए

2. लेखन विज्ञापन लेखन (A4 Sheet)
   1. आपके नगर में साइकिल की नई दुकान खुली है। एक विज्ञापन तैयार कीजिये।
   2. किसी ऑनलाइन कंपनी की और से ऑनलाइन शॉपिंग करने हेतु 25-30 शब्दों में विज्ञापन
      तैयार कीजिये।
       <u>अनुच्छेद लेखन</u> :- किसी भी दो विषयो पर अपनी व्याकरण की पुस्तिका में लिखे।

3. भाषण वाचन गतिविधि (वाचन कौशल) 2 से 3 मिनट
   ऐसी वाणी बोलिये मन का आपा खोए Roll No. 17,13,19,25,31,37,43
   ई-क्लास स्मार्ट क्लास Roll No. 2,8,14,20,26,32,38,44
   जैसी संगति बैठिये तैसा ही फल होत Roll No. 3,9,15,21,2,33,39,45
   परहित सरिस धर्म नहीं भाई Roll No. 4,10,16,22,28,34,40,46
   राष्ट्र निर्माण में युवको का योगदान Roll No. 5,11,17,23,29,35,41,47
   लोकतंत्र में आम आदमी का स्थान Roll No. 6,12,18,24,30,36,42

नोट :- उपरोक्त विषयों में से अपने अनुक्रमांक के अनुसार विषय लेकर स्पस्ट भाव - भंगिमाओ सहित भाषण का वीडियो बनाकर विषय के अध्यापक/अध्यापिका को भेजें

Maths

- ❖ Chapter 1- real numbers
- ❖ Chapter 2- polynomials
- ❖ Chapter 3- linear equation in two variables
- ❖ Chapter 4- quadratic equation
- ❖ Chapter 7- co-ordinate Geometry
- ❖ Chapter 5-AP
- ❖ Revise all the syllabus done in the class
- ❖ Do assignments

Science:-

1. Complete Assignment 1 and 2 as per schedule.

2. Revise syllabus done till date.

3. Write Laboratory instructions on first page of file.

4. Complete the following experiments in your practical file :

Experiment 4: Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.

Experiment 5: Determine of the equivalent resistance of two resistors when connected in series and parallel.

Experiment 6: Preparing a temporary mount of a leaf peel to show stomata.

Experiment 7: Experimentally show that Carbon dioxide is given out during respiration.

Experiment 10: Determination of the Feral length of:

1. Concave mirror

2. Convex lens

Experiment 13: Tracing the path of the rays of light through a glass prism.

Social science

- History:- Lesson 7- Print culture
- political science
- Lesson 1- Power sharing
- Lesson 2- Federalism
- Lesson 4- Gender,caste, religion
- Lesson 6- Political parties
- Geography
- Lesson 4-Agriculture
- Lesson 5-Mineral and energy resources
- Revise all the syllabus done in the class
- Do assignments

St. Vivekanand Lotus Valley Public School
Class-X
Subject-English
Assignment-I

Module-I(Reading)-Homework Assignment- 1,2,3 of BBC

Module-II(Writing)-Homework Assignment- 10,11,12 of BBC

Module-IV(Writing)-Homework Assignment- 23,24,25 of BBC

Module-VI(Grammer)-Homework Assignment- 26,28 of BBC

St. Vivekanand Lotus Valley Public School
Class-X
Subject-English
Assignment-II

Module-VII(First Flight)-Do Page :- 295,300,301 of BBC

Module-VIII(Footprints Without Feet)- Do Page :-390,394 of BBC

Speaking Activity:-

1.   Importance of Sports (Roll No- 1,7,13,19,25,31,37,43)

2.   Problem of Corruption (Roll No- 2,8,14,20,26,32,38,44)

3.   Impact of Climate Change (Roll No- 3,9,15,21,27,33,39,45)

4.   Stealing Power is a Crime (Roll No -4,10,16,22,28,34,40,46)

5.   Indian Women On Rise (Roll No -5,11,17,23,29,35,41,47)

6.   Nature and Us (Roll No-6,12,18,24,30,36,42)

Prepare the Topic according to your Roll. No.

Assignment-1

1. निम्नलिखित प्रश्नो के उतर 25 से 30 शब्दों में लिखिए

    1. लेखक के अनुसार जनवरी के दिन कोलकाता में कैसा वातावरण था ?
    2. धर्म तल्ले के मोड़ पर स्त्रियों का नेतृत्व किसने किया और कैसी स्थिति थी?
    3. तताँरा को गांव कि किस परंपरा पर दुःख हो रहा था?
    4. तताँरा वामीरो कथा किस क्षेत्र से संबधित है? इसके पीछे लोगो का क्या विश्वाश था?
    5. नूह सारां जीवन क्यों रोते रहे?
    6. शेख अयाज के पिता को काला च्योंटा कहा मिला उन्होंने उसका क्या किया?
    7. मीराबाई के काव्य में विरहानुभूति को स्पष्टकीजिये।
    8. प्रथम पद में मीरा ने द्रोपदी की पीड़ा के विषय में क्या कहा है?
    9. कंपनी बाग़ में रखी तोप अब किसके काम आ रही है ?
    10. तोप हमें क्या याद दिलाती है ?
    11. बिहार के अनुसार उसके आराध्ये कौन है , और उनकी आराधना कैसे हुई है ?
    12. बिहारी की नायिका कैसे सन्देश भेजती है ?

2. निम्नलिखित प्रश्नो के उतर 50 से 60 शब्दों में लिखिए

    1. लोगो को आशा होने लगी कि शायद पुलिस अपना रंग न दिखलावे पर वह कब रुकने वाली थी? पंक्ति का आशय क्या है।
    2. बृजलाल गोयनका कौन था ? उसका जुलुस में क्या योगदान था ?
    3. तताँरा के व्यक्तित्व का चरित्र चित्रण कीजिय।
    4. वामीरो की माँ को क्या अपमानजनक लगा , उसने क्या किया ?
    5. बादशाह सुलेमान और चीटियों से जुडी घटना का वर्णन अपने शब्दों में करो।
    6. लेखक की माँ ने पश्चाताप में रोजा क्यों रखा ? वह क्या करना चाहती थी ? और उसके हाथो को क्या हो गया? विस्तारपूर्वक लिखो
    7. बिहारी कवि की भाषा शैली पर प्रकाश डालिये।
    8. सिद्ध कीजिये की बिहारी के दोहे निति परक है।
    9. 'तोप' कविता का मूलभाव बताते हुए उसका प्रतिपाद्य स्पष्ट करो।
    10. तोप को कंपनी बाग़ के मुख्य द्धार पर क्यों रखा गया है ?
    11. मीराबाई के काव्ये में व्यक्त प्रेम भावना का स्वरूप स्पष्ट करे

Assignment-2

1. औपचारिक पत्र

    1. खेलो का सामान उपलब्ध करवाने के लिए प्रधानचार्या को पत्र लिखो।
    2. पुस्तकालय में हिंदी पत्रिकाएं मंगवाने के लिए प्रधानचार्या को अनुरोध पत्र लिखिए।
    3. स्वास्थ्ये विभाग द्वारा आपके क्षेत्र की गंदगी की और कोई ध्यान न दिए जाने पर किसी दैनिक समाचार पत्र के संपादक को पत्र लिखिए।
    4. किसी समाचार-पत्र के संपादक को पत्र लिखिए जिसमे नगर में व्याप्त बिजली की अवव्यस्था का वरनन किया गया हो।
    5. हिंदी में लिखे सार्वजनिक सुचना पट्टों पर अशुद्ध हिंदी देखने को मिलती है। इस और ध्यान आकृष्ट करने के लिए उदहारण देते हुए संपादक के पत्र लिखो

2. अनुच्छेद लेखन - निम्नलिखित विषयो पर 80 से 120 शब्दों में अनुच्छेद लिखे

    1. आवश्यकता आविष्कार की जननी है।
    2. आत्म-निर्भरता
    3. आधुनिक नारी की दोहरी भूमिका
    4. इ-कचरा (21 वी सदी का कचरा)
    5. वही मनुष्य है जो मनुष्ये के लिए मरे

3. व्याकरण :-

    समास - निम्न लिखित समस्त पदों का विग्रह कर समास का नाम लिखो

    राजदूत , तुलसीदास , ग्रहस्वामी, उधोगपति , मधुमखी,नीलगाय , महेश, कमलनयन, देश निकाला, रणकौशल ,महाकाव्ये,मनचाहा,प्रतिदिन ,यथावसर, भयाकुल, रातभर, मालगोदाम, वचनामृत ,छुपाई,शताब्दी, माँ-बाप, गुण दोष , पाचननं , घनश्याम ,मृगनयनी, महावीर

4. 'बड़े भाई साहब' पाठ से 20 मुहावरे छांट कर अपनी व्याकरण की पुस्तिका में अर्थ व वाक्ये सहित लिखो:-

    प्राण सुखना,पहाड़ होना, हंसी खेल होना,आँख फोड़ना ,खून जलाना, पास फटकना,गाड़ी कमाई , लगती बात,जिगर के टुकड़े-टुकड़े करना , हाथ डालना , दबे पाओं आना , प्राण निकलना ,घुड़कियाँ खाना,आड़े हाथो लेना,घाव पर नमक छिड़कना, राह लेना , शब्द चाटना, दांतो पसीना आना , दिमाग होना
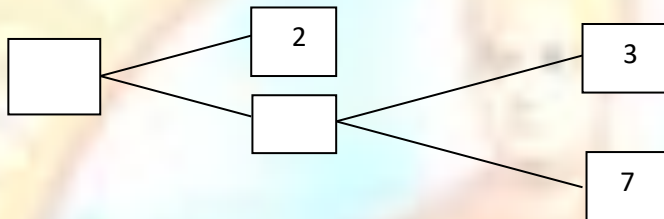
St. Vivekanand Lotus Valley Public School
Class-X, Assignment
Subject :- Mathematics

Assignment –I

1. Show that only one of the numbers n, n+2 and n+4 is divisible by 3.
2. Using Euclid's division algorithm, find the HCF of 56, 96 and 404.
3. Using Euclid's division algorithm, to find the HCF of 726 and 275 and express it in the form 726m + 275n
4. Using Euclid's division algorithm to find HCF of 595 and 252 and express it in the form 595m + 252n.
5. Write the HCF of the smallest composite number and the smallest prime number.
6. Complete the missing entries in the following factor tree

7. The LCM of two numbers is 14 times their HCF. The sum of LCM and HCF is 600. If one number is 280, then find the other number.
8. Show that 12th cannot end with o for any natural number n.
9. Find HCF and LCM of the 270, 405 and 315 using fundamental Th^m of Arithmetic.
10. Prove that $\sqrt{p} + \sqrt{q}$ is irrational, where p, q are primes.
11. Prove that $\sqrt{5}$ is irrational.
12. If the product of the Zeroes of the Polynomial $ax^2 - 6x - 6$ is 4, find the value of a.
13. If α, β, γ are the zeroes of the Cubic Polynomial $x^3 + 4x + 2$ then find the value of $\frac{1}{\alpha+\beta} + \frac{1}{\beta+\gamma} + \frac{1}{\gamma+\alpha}$.
14. If α, β are the zeroes of polynomial $f(x) = ax^2 + bx + c$, then find $\frac{1}{\alpha^2} + \frac{1}{\beta^2}$
15. Verify that -2, $\frac{-2}{3}$, 2 are the Zeroes of the Cubic Polynomial p(x)=$3x^3 + 2x^2 - 12x - 8$ and then verify the relationship between the zeroes and the Coefficients.
16. Given that $\sqrt{2}$ is a Zero of the polynomial $6x^3 + \sqrt{2}x^2 - 10x - 4\sqrt{2}$ Find its Zeroes.
17. If the polynomial $6x^4 + 8x^3 + 17x^2 + 21x + 7$ is divided by another polynomial $3x^2 + 4x + 1$, the remainder comes out to be $(ax + b)$, then find $a \ and \ b$.
18. If the Zeroes of the quadratic polynomial $x^2 + (a + 1)x + b$ are 2 and -3, then find $a \ and \ b$.
19. Solve graphically the following system of linear equations: $x - 2y = 1 \ and \ 2x + y = 7$. Also find the Co-ordinates of the points where the lines meet the x-axis.
20. Find the value of k for which the given system of lines has unique solution

$$2x + 3y - 5 = 0 \ and \ kx - 6y - 8 = 0$$

ASSIGNMENT-II

01. Solve :- $x + y = a - b$ and $ax - by = a^2 + b^2$ using Substitution, Elimination, Cross Multiplication Method

02. Solve for and y :
$\frac{xy}{x-y} = \frac{1}{2}$ and $\frac{xy}{x+y} = \frac{1}{5}$

03. A Railway half-ticket costs half the full fare but the reservation charges are the same on a half ticket as on a full ticket. One reserved first class ticket from station A to station b costs ₹ 2125. Also reserved first class ticket and one reserved half first class ticket from A to B cost ₹ 3200. Find the full fare and reservation charges for a ticket.

04. A man sold a chair and a table together for ₹ 1520 thereby making profit of 25% on chair and 10% on table. By selling them together for ₹ 1535, he would have made a profit of 10% on the chair and 25% on the table. Find the cost price of each.

05. A man rowing at the rate of 5 km/hr in still water, takes thrice as much time in going 40km upstream in the river as in going 40km down stream. Find the rate at which the river flows.

06. The sum of the digits of a two digit number is 15. The number is decreased by 27, if the digits are reversed. Find the number.

07. If the numerator of a fraction is decreased by 2, its value becomes 1/3, and if the denominator is increased by 1, its value becomes $\frac{1}{2}$ find the fraction.

08. Five years ago, A was thrice as old as B and ten years later A shall be twice as old B. What are the present ages of A and B?

09. A man travels 600 km partly by train and partly by car. If he covers 400km by train and the rest by car., it takes him 6 hrs and 30 min. But if he travels 200km by train half an hour longer. Find the speed of the train and that of the car.

10. Two pipes running together can fill a cistern in $3\frac{1}{13}$ minute. If one pipe takes 3 minutes more than the other to fill it, find the time in which each pipe would fill the cistern.

11. Find the roots of $abx^2 + (b^2 - ac)x - bc = 0$ by factorization.

12. An aeroplane left 30 minutes later than its scheduled time. In order to reach his destination 1500 km away in time, the pilot decided to increase its speed by 250 km/h from its usual speed. Find the usual speed of aeroplane.

13. Solve:- $\sqrt{2}x^2 + 7x + 5\sqrt{2} = 0$ by method of completing the square method.

14. Solve :- $9x^2 - 9(a + b)x + [2a^2 + 5ab + 2b^2] = 0$ using quadratic formula and factorization method.

15. Find the quadratic equation if $x = \sqrt{5 + \sqrt{5 + \sqrt{5 + \cdots \infty}}}$ and x is a natural number and solve it.

16. If the roots of the equation $(a^2 + b^2)x^2(ac + bd)x + (c^2 + d^2) = 0$ are equal, prove that $\frac{a}{b} = \frac{c}{d}$

17. If the points $P(x, y)$ be equidistant from the points $A(a + b, b - a)$ and $B(a - b, a + b)$ then prove that $bx = ay$

18. Determine the ratio in which the line $2x + y - 4 = 0$ divides the line segment joining the points A(2,-2) and B(3,7).

19. Show that the points $P\left(\frac{-3}{2}, 3\right), Q(6, -2)$ and $R(-3, 4)$ are collinear.

20. Prove that the area of the triangle with vertices (t,(t-2)),(t+2,t+2) and (t+3,t) is independent of t.

St. Vivekanand Lotus Valley Public School
Class-X
SUBJECT-Physics

Assignment-I

1. An example of renewable source of energy is
   a) petrol   b) natural gas   c) biogas   d) kerosene
2. A non-renewable source of energy is
   a) Wood   b) alcohol   c) hydrogen gas   d) natural gas
3. Which of the following is not a renewable source of Energy?
   a) Wind   b) flowing water   c) fossil fuels   d) fuel wood
4. The fuel having a calorific value of 55 kj/g is likely to be
   a) biogas   b) methane gas   c) hydrogen gas   d) Natural gas
5. The fuel having the lowest calorific value is
   a) Coal   b) wood   c) charcoal   d) kerosene
6. The main constituent of petroleum gas is
   a) Methane   b) ethane   c) butane   d) propane
7. Gas which does not contribute to acid rain is
   a) NO   b) SO_2 c) CO   d) CO_2
8. LPG mainly consists of
   a) Butane   b) ethane   c) butanone   d) Methane
9. Solar cells are made of
   a) Conductors   b) Insulators   c) Semi-conductors   d) Super-conductors
10. At a hydro power plant
    a) K.E. possessed by stored water is converted into
    b) Electricity is extracted from water electrical energy
    c) Water is converted into steam to turn turbines & produce electricity
11. Geothermal Energy is produced by
    a) Fission of Radioactive materials   b) Burning of coal inside the coal mines
    c) Combustion of natural gas deep inside the earth   d) Fusion of radioactive substances
12. Which of the following can undergo nuclear fusion reaction
    a) Uranium   b) deuterium   c) barium   d) krypton
13. The major cause of environmental pollution is the use of
    a) hydrogen as fuel   b) biomass energy   c) ocean energy   d) fossil fuels
14. Which of the following is used/produced during nuclear fission reaction
    a) protons   b) deutrons   c) electrons   d) neutrons
15. 1 atomic mass unit (u) is equivalent to energy of
    a) 931eV   b) 9.31 MeV   c) 1 MeV   d) 931 MeV
16. The workdone in moving a charge of 1C b/w two points is a measure of
    a) Current   b) Potential difference   c) Resistance   d)Power
17. One coulomb charge is equivalent to the charge contained in
    a) 2.6×10^{19} electrons   b) 6.2×10^{19} electrons
    c) 2.65×10^{18} electrons   d) 2.65×10^{18} electrons
18. If the current through a flood lamp is 5A. what charge passes in 10 seconds.
    a) 0.5C   b) 2C   c) 5C   d) 50C
19. IF the amount of electric charge passing through a conductor in 10 min in 300C, the current flowing is
    a) 30A   b) 0.3A   c) 0.5A   d) 5A
20. Keeping the potential difference constant, the resistance of a circuit is doubled. The current will become:
    a) double   b) half   c) one fourth   d) four times
21. Ohm's law gives a relationship b/w
    a) current & resistance   b) resistance and potential difference
    c) potential diff & electric charge   d) Current & Potential diff

22. The resistivity of copper metal depends on only one of the following factor. This factor is
   a) length   b) thickness   c) temperature   d) area of crossection
23. If two resistors of 25Ω & $15\ \Omega$ are joined together in series & then placed in parallel with a $40\ \Omega$ resistor, the effective resistance of the combination is
   a) $0.1\ \Omega$ b) $10\ \Omega$ c) $20\ \Omega$ d) $40\ \Omega$
25. The SI unit of energy is
   a) Joule   b) Coulomb   c) Watt   d) ohm-metre
26. An electric fuse works on
   a) Chemical effect of current   b) Magnetic effect of current
   c) Lightening effect of current   d) heating effect of current
27. The current passing through an electric bulb has been doubled. The heat produced will become:
   a) half   b) double   c) four times   d) on fourth
28. The p.d across a $3\ \Omega$ resister us 6V. The current flowing in the resister will
   a) ½ A   b) 1A   c) 2A   d) 6A
29. Resistivity of a conductor depends upon
   a) $p = RA/l$ b) $p = Rl/A$ c) $p = RA/l^2$ d) None
30. Slop of current voltage graph is
   a) R   b) 1/R   c) $1/R^2$ d) R^2

Questions

31) A 2 kW heater, a 200 W TV & three 100W lamps are all switched on from 6 pm to 10 pm. What is the total cost at Ra 5.50 per kWh ?
32) 100 J of heat is produced per second in 4Ω resistor . what is the potential diff across resistor.
33) What is the a) highest & b) lowest, resistance which can be obtained by combining four resistor having following resistance? $4\ \Omega$, $8\ \Omega$, $12\ \Omega$, $16\ \Omega$
34) Define resistance of a conductor? Draw a graph b/w two quantities whose slop will determine the resistance of conductor.
35) Calculate the resistance of a copper wire 1.0 km long and 0.5 mm diameter if the resistivity of copper is $1.7 \times 10^{-8}\ \Omega\,m$
36) What are fossil fuels? Give three examples of fossil fuels & write one use of each.
37) What is hydroelectricity . Explain the basic principle of generation of hydroelectricity with help of a diagram.
38) Explain how, wind energy can be used to generate electricity ?
39) What is biogas? Write its major components Describe its construction & working.
40) Differentiate b/w Nuclear fusion & Nuclear fission?

Assignment -2

1) How many periods and groups in the periodic table
a) 7 periods and 18 groups b) 18 periods & 7 groups
c) 7 periods and 7 groups d) 18 periods & 18 groups

2) Which of the following forms the basis of the modern periodic table
a) atomic mass b) atomic number c) No. of Neutron d) None

3) What happens to the electropositive character of elements on moving from left to right in a periodic table?
a) Increase b) decrease c) Intermediates d) No change

4) The electronic configuration of an element M is 2,8,4. In modern periodic table, the element M is placed in
a) 4th group b) 2nd group c) 14th group d) 18th group

5) Which of the following is the correct order of the atomic radii of the elements
a) D<F<N b) N<F<O c) O<N<F d) F<O<N

6) What is the other name for 18th group elements ?
a) Noble gas b) Alkali Metals c) Alkaline earth metals d) None

7) Which of the following is most reactive element of group 17?
a) Oxygen b) Sodium c) Fluorine d) Magnesium

8) Element X forms a chloride with the formula XCl_2, which is a solid with a high melting point. X would most likely to be in the same group of the periodic table is
a) Na b) Mg c) Al d) Si

9) Which group elements are called transition metals?
a) Group No 1 to 2 b) Group No 13 to 18 c) Group No 3 to 12 d) Group No 1 to 8

10) Which of the following element has 2 shells and both are completely filled?
a) Helium b) Neon c) Calcium d) Boron

11) Which of the following is the atomic No. of an element that forms basic oxide?
a) 18 b) 17 c) 19 d) 15

12) The elements A,B & C Atomic No 2,14 & 16 respectively, of the periodic table. Which for the two elements will form covalent bonds?
a) A & B b) B & C c) C & A d) None of these

13) Which of the following does not decrease while moving down the group of the periodic table?
a) Atomic Radius b) Metallic character c) No. of shells in the atom d) Valence electrons

14) An element X belongs to the 3rd period & 1st group of the periodic table. What is the no. of valance e^- in the atom .
a) 1 b) 3 c) 6 d) 8

15) An element M is in group 13th of the periodic table the formula of the oxide is
a) MO b) M_2O_3 c) M_3O_2 d) None

16) In a chemical reaction between sulphuric acid & Berium chloride solution the white ppt formed are of
a) HCL b) Barium Sulphate c) Chlorine d) Sulpher

17) Which of the following gases is used in the storage of fat and oil containing foods for a long time?
a) Co_2 b) N_2 c) O_2 d) Noble gas

18) The neutralization reaction b/w an Acid & a base is a type of
a) Double displacement Rxn b) Displacement Reaction
c) Addition Reaction d) Decomposition Reaction

19) Upto which element law of Octaves was applicable
a) Oxygen b) Calcium c) Cobalt d) Potassium

20) Newlands Relation is called
a) Musical Law b) Law of Octaves c) Periodic law d) Atomic mass law

21) What is the atomic Number of Element of period 3 and group 17 of the periodic table ?
a) 10 b) 4 c) 17 d) 21

22) Which of the following is Transition element ?
a) Pb   b) As   c) Al   d) Ni
23) The lightest liquid mental is
a) Hg   b) Ga   c) Cs   d) Fr
24) The element which has least tendency to loose electron is
a) H   b) Li   c) He   d) Ne
25) The element of group-16 are called
a) Chalcogens   b) Halogens   c) Good Gases   d) None

Questions

26) Draw sketch of periodic table and complete it upto element Zinc (atomic no. = 30)
27) Give relationship regarding trends as we move left to right in a Periodic table or top to bottom in a group for properties like:-
a) Atomic size   b) Valency   c) Metallic character
d) Electro negativity   e) Valence electrons
28) Write atleast three drawbacks each of
1)DobereineTraids   2) Newland's Law of Octaves   3) Mendeleev's Periodic Table
29) Draw a sketch explaining the type of reactions & give atleast two example each.
30) Differentiate between Rancidity & Corrosion by giving suitable examples related to daily life.

Assignment - 1

1. The sperm storage organ in human males is

    a) Testis   b) Epididymis   c) Vas Deferens   d) Penis

2. The unicellular organism which reproduces by budding is

    a) *Spirogyra*   *b) Planaria*   c) Yeast   d) *Hydra*

3. Endosperm nucleus in plants is formed by the fusion of

    a) Male gamete with egg cell

    b) Pollen grain and stigma

    c) Two polar nuclei

    d) Endosperm

4. During tissue culture, a mass of unorganised cells is called

    a) Tissue

    b) Cell mass

    c) Callus

    d) Organised Cells and mass

5. Which of the following is not a type of accessory gland?

    a) Salivary Gland   b) Prostate Gland

    c) Seminal Vesicles   d) Cowper's Gland

6. Hydra reproduces asexually through_____

7. Flowering plant exhibit _____fertilisation.

8. _____gland secretes alkaline fluid which neutralises the vaginal acidity.

9. Name the parts of the human male reproductive system where:

    i. Fertilisation takes place

    ii. Implantation of the fertilised egg occurs.

10. *Rhizopus* and *Mucor* reproduce commonly by spore formation. (True/False)

11. Gestation period in human being is 32 weeks. (True/False)

12. The terminal part of human penis

    (Glans penis / prepuce/urethra)

13. Spore formation is a common form of asexual reproduction in _____, _____ and fungi.

14. What are clones? Why do offspring formed by asexual reproduction exhibit remarkable similarity?

15. In female reproductive system, mention the parts and their functions.

    i. Organ where production of egg takes place.

    ii. Site of fertilisation

    iii. Site of implantation

    iv. Part from where entry of the sperms takes place.

16. Define a) parturition   b) Gestation Period

17. Give a short account of menstruation in human female.

18. When a cell reproduces, what happens to its DNA?

19. What happens to the following parts after fertilisation?

    i. Ovum

    ii. Ovary

    iii. Ovule

    iv. Sepals

    v. Petals

20. Explain what happens to the egg once it gets fertilised in human female.

St. Vivekanand Lotus Valley Public School
Class- X
Science
Chapter – Life Processes

Assignment - 2

1. Emulsification of fat is carried out by

   a) Gastric Juice   b) Bile Juice   c) Intestinal Juice   d) All of these

2. Pepsin digests

   a) proteins in stomach   b) proteins in duodenerm

   c) Carbohydrates in cluodenum   d) Fats in ileum

3. Amoeba injects the food with the help of

   a) Oral Opening   b) Cilia c) Flagella   d) Pseudopodia

4. Salivary amylase converts sugars into glucose. (True / False)

5. Name the raw materials required for photosynthesis.

6. Mention the function of urinary bladder.

7. What is Peristalsis?

8. What is the role of villi?

9. What do you mean by double circulation of blood?

10. Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?

11. Name the basic filtration unit present in the kidney.

12. Name the part where exchange of gases takes place.

13. Describe the process of digestion in the small intestine of man.

14. Why is chlorophyll extracted from the leaf before testing it for the presence of starch?

15. Difference between inspiration/inhalation and expiration/exhalation?

16. What happens to rate of breathing during vigorous exercise and why?

17. Draw a well labelled diagram of human excretory system.

18. Name the two valves present between right and left sides of auricles and ventricles.

19. _____ vessel carries deoxygenated blood to lungs.

20. Which tissue is responsible for transportation of food in plants?

ST.VIVEKANAND LOTUS VALLEY PUBLIC SCHOOL
Sub- Social Science
CLASS-X

Assignment -1

1. What is Majoritarianism?

2. Which is the state religion of Sri Lanka?

3. Which two languages are generally spoken in Belgium ?

4. Both Belgium and Sri Lanka are democracies but they follow different systems of power –sharing'. Support the statement by giving three points of difference.

5. Describe the tension that existed between the Dutch and the French speaking people in Belgium.

6. Why is power sharing desirable ?

7. Explain the major form of power sharing in modern democracies.

8. Explain the differences b/w horizontal power sharing and vertical power sharing.

9. How is federal govt. better than a unitary govt. explain with examples of Belgium and Sri Lanka.

10. Differentiate b/w community govt. in Belgium and majoritarian govt. in Sri Lanka.

11 Name any two examples of coming together federation.

12. Explain two achievements and two difficulties of the local self-govt in India.

13. What is the panchayati raj? What is its importances?

14. Explain the major key features of federalism.

15. Distinguish b/w the coming together federalism & the holding together federalism.

16. `India is a federal country '. Explain by giving examples.

17. Distinguish b/w the union and the concurrent list.

18. Describe is briefly the language policy of India.

19. What is decentralisation? What is the importance or need for decentralisation?

20. How has the third tier of govt. in our country been made more effective and powerful by the constitutional amendment to of 1992?

21. Assess the need for local govt.

22. What is the main differences b/w a federal form of govt. and a unitary one? Explain with an example.

23. `In India women's representation is very low'. justify.

24. What are feminist movements? What were their major demands.

25. State any four provisions of the constitution. Which makes it or secular state

26. `Politics too influences the caste system'. Explain.

27. How women in India still face discrimination and oppression in various ways? Explain.

28. Explain the various forms that communalism can take in politics.

29. How does social division affect politics? Explain with examples.

30. What is one- party system and also mention its advantages and disadvantages.

31. What is bi-party system and its advantages & disadvantages?

32. Why do we have a multi party system in India and also mention its advantages.

33. What is defection? What happens if any mp & MLA is indulged in defection ?

34. When was Indian national congress formed a also mention in ideologies?

35. Explain the role of opposition in democracy.

36. What is the need to have political parties?

37. What are the major function of political parties ?

38. Why is there a lack of internal democracy within political parties in India .explain with example .

39. Dynastic succession is the major challenge for political parties . explain.

40. Explain some reforms to strength the working political parties .

41. Suggest any five political reforms to strengthen democracy.

42. Distinguish b/w :

       1 . Political party & a pressure group.

       2. Regional & National party.

NOTE: Make a project report on

    (i) social issue or   (ii) Consumer awareness or   (iii) Sustainable development

ASSIGNMENT -2

1. `The imperial state in china, was the major producer of printed material' Support this Statement with examples.

2. State any three points of importance of penny chapbooks.

3. `Print popularised the idea of the enlightenment thinkers. Explain.

4. What were the drawbacks of the hand written manuscripts?

5. How did the print culture developed in Europe. Explain?

6. `Oral culture and print culture were complementary to each other'. Justify the statement with any three suitable arguments.

7. How did print help connect communities and people in different parts of India? Explain with examples.

8. `Not everyone welcomed the printed books, and those who did also had fears about it,. Explain by giving examples.

9. How did the new reading public emerged with the printing press? Explain?

10. Explain the impact of print culture on Indian women.

11. Write short note on:-

    (a.) Gutenberg press   (b.)Vernacular press act

12. What did the spread of print culture in 19th century India mean to:

    (a) Women (b) the poor (c) Reformers

13. Distinguish b/w intensive subsistence and primitive subsistence farming.

14. Explain the favourable geographical conditions required for the production of:-

    (i) Rice   (ii) Wheat   (iii)Sugarcane   (iv) Rubber   (v) Cotton

15. Describe any four geographical conditions required for the growth of tea and coffee.

16. Which crop is known as the `Golden fiber'. Explain two geographical conditions essential for the cultivation of this crop. Mention any four uses'.

17. Differentiate b/w the commercial agriculture and subsistence agriculture.

18. Describe any four reforms brought in the Indian agriculture after independence through the efforts of the Indian govt.

19. What are places deposits?

20. Which is the most popular coal for commercial use?

21. How is atomic energy produced? Explain.

22. What is the utility of manganese? Describe its distribution.

23. `Minerals in India are unevenly distributed'. Explain.

24. Why there is a need to conserve minerals?

25. What are the four types of coal? Write are main characteristic of each.

26. `nuclear energy in the hope of future'. Discuss the statement by giving five points.

27. Distinguish b/w:

    (i) Conventional and non conventional sources of energy.

    (ii) Rocks & minerals.

28. What do you think that solar energy has a bright future in India?

29. What are the uses of petroleum? Suggest any two ways to save petroleum.

30. Why is mining activity often called a `Killer industry'? Give three reasons