Holiday Homework

Class X

English

Make a "Travel Brochure" of any of your favourite Indian tourist destination.

Note: If should contain all details like how to reach, maps, attire, cuisine, famous sites etc.

Rubrics

Content- 02
Accuracy-01
Creativity- 01
Presentation-o1

Revise all the syllabus and complete the portfolio for assessment.

शीतकालीन अवकाशीय हिंदी गृहकार्य
कक्षा :– दसवीं

- भारत में धर्म की आड़ पर व्यापार करने वाले लोगों पर रिपोर्ट तैयार कर पोर्टफोलियो में लगाएं।
- समाचार पत्रों में से विभिन्न प्रकार के विज्ञापनों का प्रयोग का कोलाज बनाए व उसे पोर्टफोलियो में लगाए ।
- कोई भी दो हिंदी के सैंपल पेपर को हल कर पोर्टफोलियो में लगाए ।

NOTE :- Complete your portfolio for Internal assessment marks. It's mandatory.

Maths

1)Revise the complete Syllabus for Preboard Exam -2

2) Solve the Pre board -1 Question paper and two'unsolved Sample Papers in separate ruled sheet.

3) Complete all the activities and submit your files after winter break for the Assessment.

Arwachin Bharti Bhawan Sr Sec School
Vivek Vihar, Delhi
Winter Break - Holidays HomeHomework
Class - X

Dear Children,

Solve the below given sample paper:

SAMPLE PAPER

Time:3hours **MM:80**

General instructions:

i. This question paper consists of 39 questions in 5 sections.

ii. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.

iii. Section A consists of 20 objective type questions carrying 01 mark each.

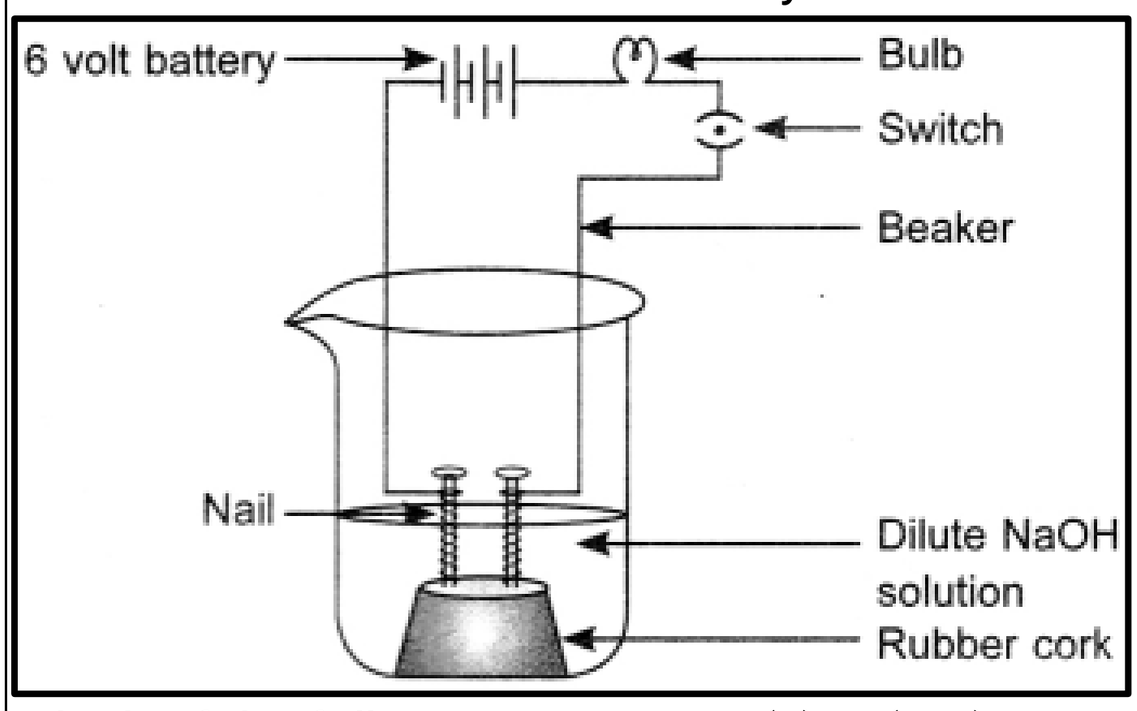
iv. Section B consists of 6 Very Short questions carrying 02 marks each. Answers to these questions should in the range of 30 to 50 words.

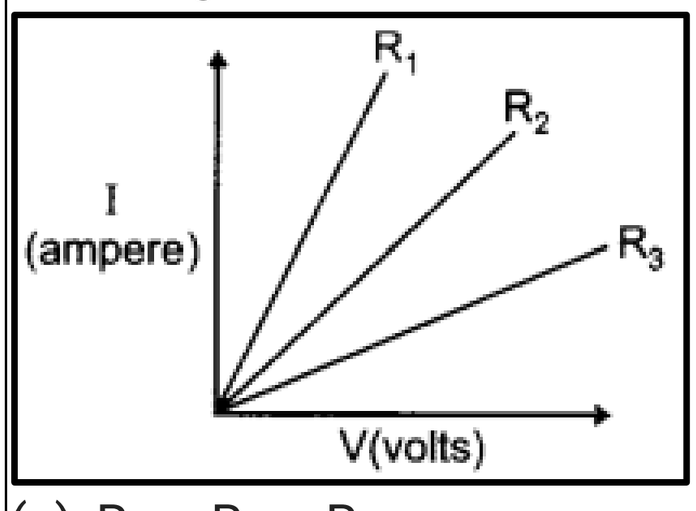
v. Section C consists of 7 Short Answer type questions carrying 03 marks each. Answers to these questions should in the range of 50 to 80 words.

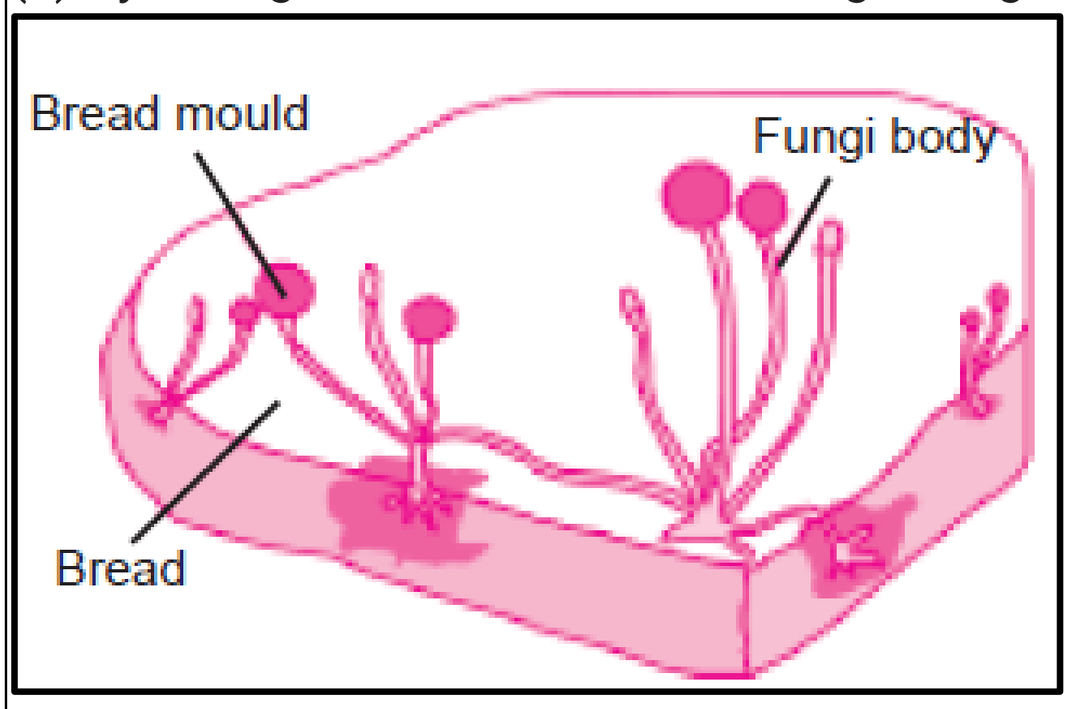
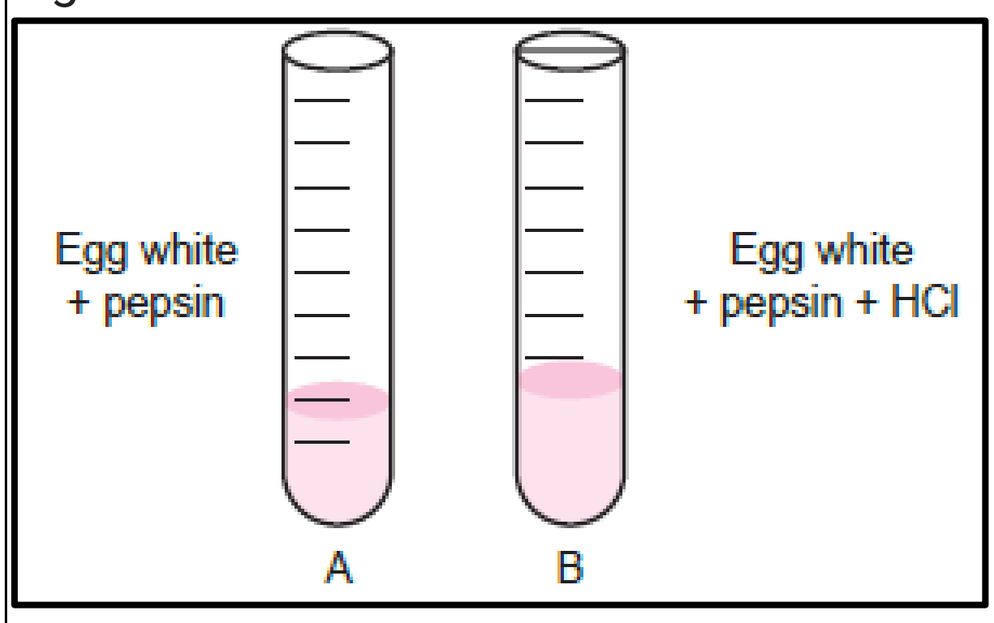
vi. Section D consists of 3 Long Answer type questions carrying 05 marks each. Answer to these questions should be in the range of 80 to 120 words.

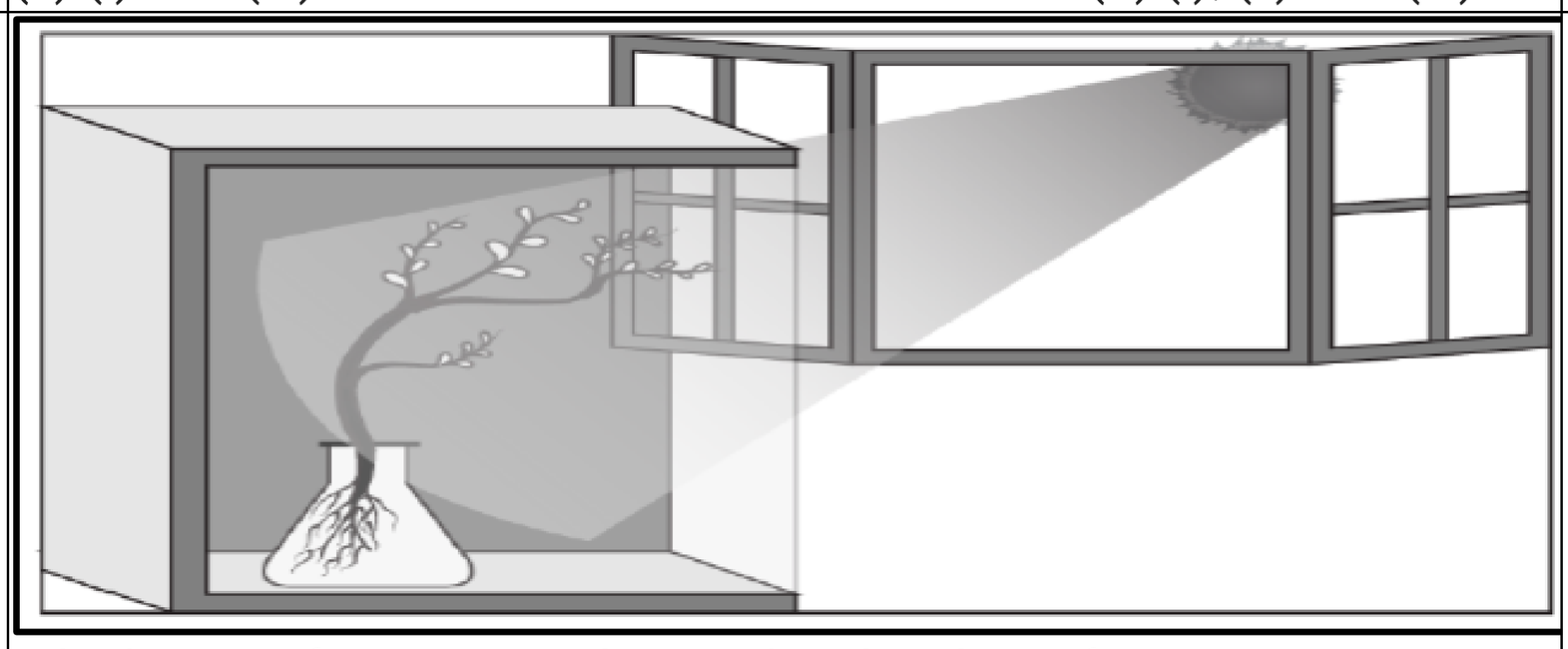
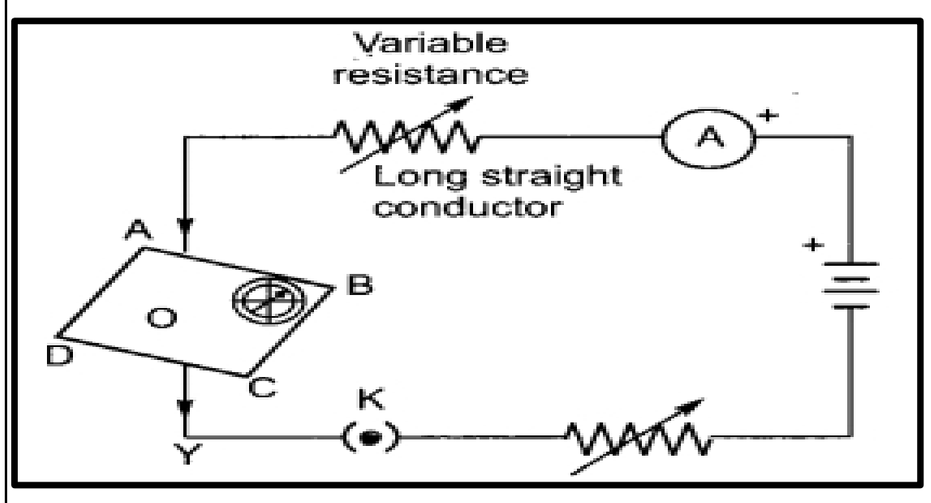
vii. Section E consists of 3 source-based/case-based units of assessment of 04 marks each with sub-parts.

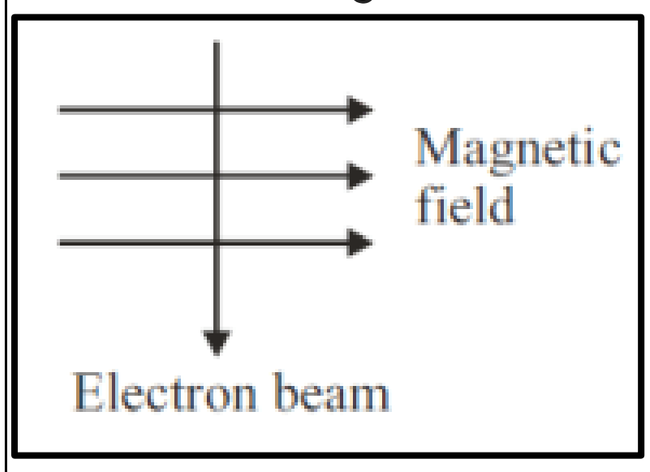
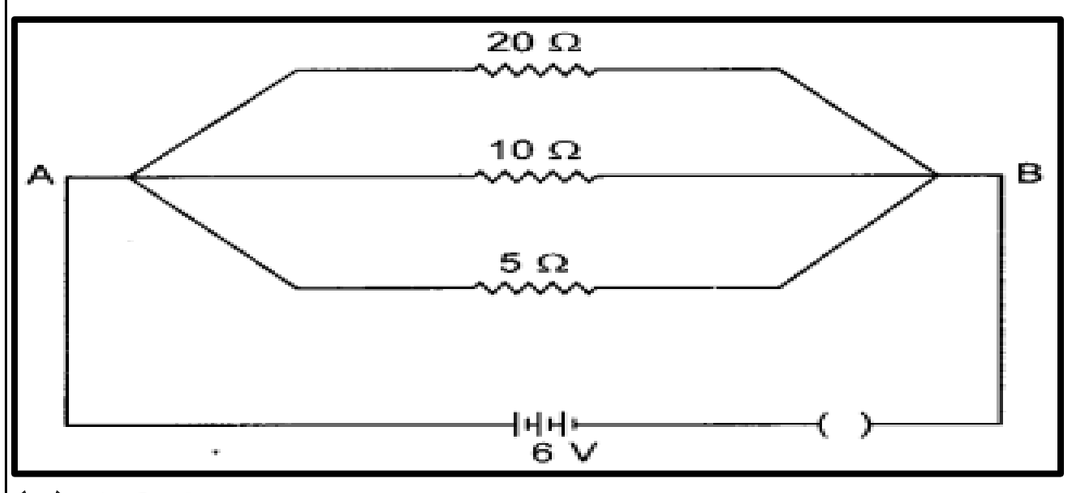
SECTION – A Select and write one most appropriate option out of the four options given for each of the questions 1 – 20.		
Q. No.	**QUESTIONS**	**Marks**

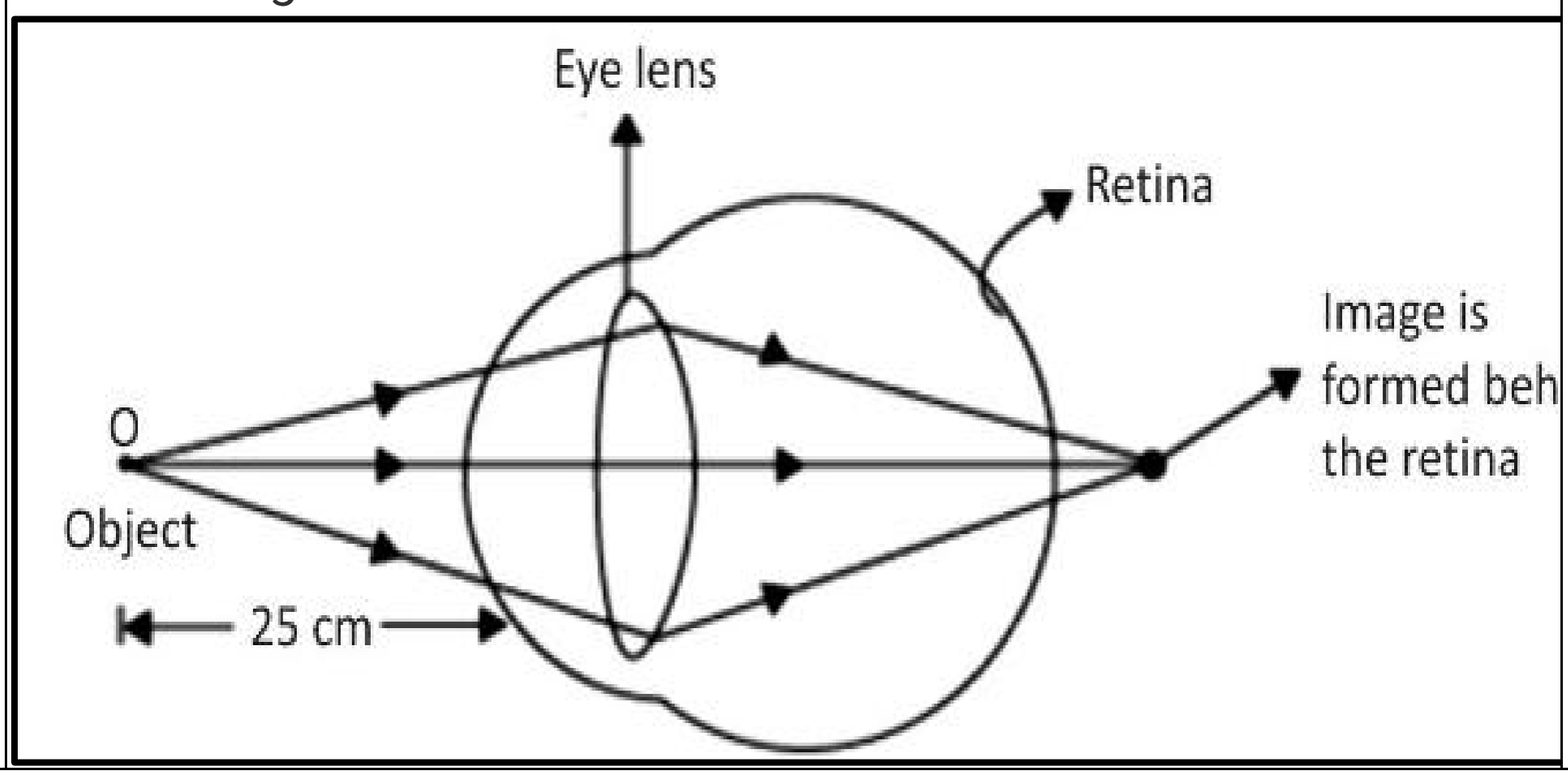
1.	The apparatus given in the adjoining figure was set up to demonstrate electrical conductivity.  Which of the following statement(s) is (are) correct? (i) Bulb will not glow because electrolyte is not acidic. (ii) Bulb will glow because NaOH is a strong base and furnishes ions for conduction. (iii) Bulb will not glow because circuit is incomplete. (iv) Bulb will not glow because it depends upon the type of electrolytic solution. (a) (i) and (iii) (b) (ii) and (iv) (c) (ii) only (d) (iv) only	**1**
2.	Reema took 5ml of Lead Nitrate solution in a beaker and added approximately 4ml of Potassium Iodide solution to it. What would she observe? (a) The solution turned red. (b)Yellow precipitate was formed. (c) White precipitate was formed. (d) The reaction mixture became hot.	**1**
3.	Identify the substances that is oxidized and the substances that is reduced in the following reactions: $CuO(s) + H_2(g) \rightarrow Cu(s) + H_2O(l)$ (a) H_2, CuO (b) H_2 , H_2O (c)H_2O, Cu (d) Cu, H_2	**1**
4.	Equal volumes of hydrochloric acid and sodium hydroxide solutions of same concentration are mixed and the pH of the resulting solution is checked with a pH paper. What will be the pH value of the resultant solution? (a) 6 (b) 8 (c) 7 (d) 9	**1**

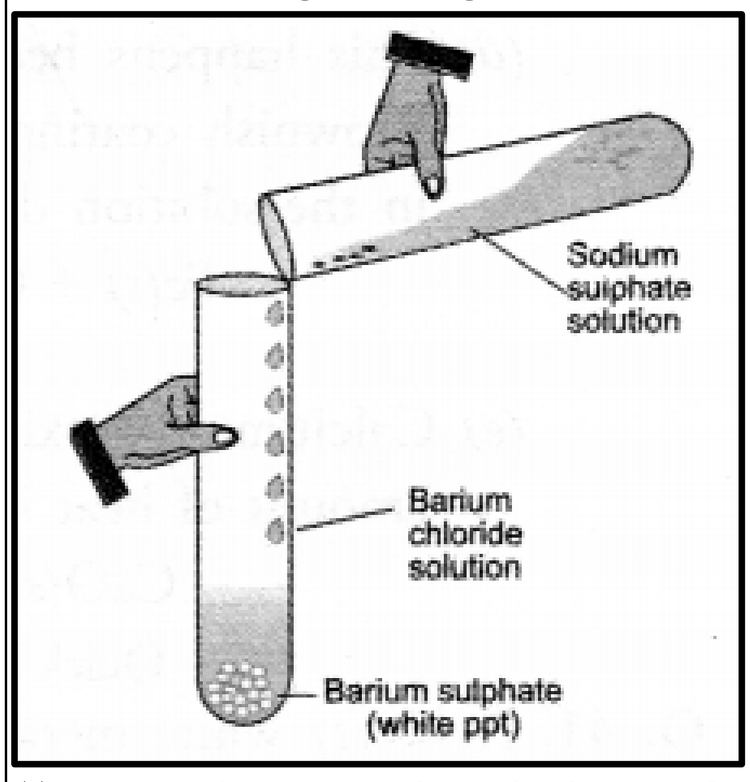
5.	Reaction between X and Y forms compound Z. X loses electron and Y gains electron. Which of the following properties is not shown by Z? (a) Has high melting point (b) Has low melting point (c) Conducts electricity in molten state (d) Occurs as solid	**1**
6.	Which of the following statements are usually correct for carbon Compounds? (i) are good conductors of electricity (ii) are poor conductors of electricity (iii) have strong forces of attraction between their molecules (iv) do not have strong forces of attraction between their molecules (a) (i) and (iii) (b) (ii) and (iii) (c) (i) and (iv) (d) (ii) and (iv)	**1**
7.	A hydrocarbon has four carbon atoms. Give its molecular formula if it is an (a) C_4H_{10} (c) C_4H_6 (d) C_4H_4	**1**
8.	A student carries out an experiment and plots the V-I graph of three s of nichrome wire with resistances R_1, R_2 and R_3 respectively. Which o following is  (a) $R_1 = R_2 = R_3$ (c) $R_3 > R_2 > R_1$ (d) $R_2 > R_3 > R_1$	**1**

9.	The image shows the bread moulds on a bread. How these fungi obtain nutrition? (a) By using nutrients from the bread to prepare their own food. (b) By allowing other organisms to grow on the bread and then consuming them. (c) By breaking down the nutrients of bread and then absorbing them (d) By eating the bread on which it is growing.  	**1**
10.	A student sets up an experiment to study the role of enzymes in digestion of food.  In which test tube, the digestion of protein will occur? (a) Test tubes A as pepsin will breakdown protein into simple molecules. (b) Test tube B as HCl will breakdown protein into simple molecules. (c) Test tube A as pepsin will breakdown into simple molecules. (d) Test tube B as HCl will activate pepsin for breakdown of protein into simple molecules.	**1**
11.	A pair of contrasting characters is called (a) phenotype (b) genotype (c) allele (d) gene	**1**

12.	Which of the following statements are true? (i) Sudden action in response to something in the environment is called reflex action. (ii) Sensory neurons carry signals from spinal cord to muscles. (iii) Motor neurons carry signals from receptors to spinal cord. (iv) The path through which signals are transmitted from a receptor to a muscle or a gland is called reflex arc. (a) (i) and (ii) (b) (i) and (iii) (c) (i) and (iv) (d) (i), (ii) and (iii)	**1**
13.	 Which type of tropism is observed in the above figure? (a) Geotropism (b) Phototropism (c) Chemotropism (d) Hydrotropism	**1**
14.	If the key in the arrangement figure given below is taken out (the circuit is made open) and magnetic field lines are drawn over the horizontal plane ABCD, the lines are  (a)concentric circles (b)elliptical in shape (c)straight lines parallel to each other (Due to earth' s magnetic field) (d) concentric circles near the point O but of elliptical shapes as we go away from it.	**1**

15.	An electron beam enters a magnetic field at right angles to it as shown in the Figure:  The direction of force acting on the electron beam will be: (a) to the left (b) to the right (c) into the page (d) out of the page	**1**
16	Calculate the current flows through the 10 Ω resistor in the following circuit.  (a) 1.2 A (b) 0.6 A (c) 0.2 A (d) 2.0 A	**1**
Q.no.17 to 20 are Assertion- Reasoning based questions. **These consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:** (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.		
17.	**Assertion(A):** A compass needle is placed near a current carrying wire. The deflection of the compass needle decreases when the magnitude of an electric current in the wire is increased. **Reason (R):** Strength of a magnetic field at a point near the conductor increases on increasing the current.	**1**
18.	**Assertion (A):** Calcium carbonate when heated gives calcium oxide and water. **Reason (R):** On heating calcium carbonate, decomposition reaction takes place.	**1**

19.	**Assertion(A):** Traits like tallness and dwarfness in pea plant are inherited independently. **Reason(R):** When a homozygous tall pea plant is crossed with dwarf pea plant, medium sized pea plant is obtained in F, generation.	**1**
20.	**Assertion(A):** The accumulation of lactic acid in the muscles causes muscle cramps. **Reason(R):** During vigorous physical exercise leg muscles respire anaerobically.	**1**
SECTION – B **Q.no. 21 to 26 are very short answer questions.**		
21.	How will you obtain Zn metal from its sulphide ore? Write only reactions involved.	**2**
	OR	
21.	A zinc plate was put into a solution of copper sulphate kept in a glass container. It was found that blue colour of the solution gets fader and fader with the passage of time. After few days, when zinc plate was taken out of the solution, a number of holes were observed on it. (i) State the reason for changes observed on the zinc plate. (ii) Write the chemical equation for the reaction involved.	**1** **1**
22.	Name the two ways in which glucose is oxidised to provide energy in various organisms.	**2**
23.	Why is there a need for chemical communication in organisms?	**2**
24.	Why aquatic organisms breathe more faster than the terrestrial organisms?	**2**
25.	What is the cause of dispersion of white light on passing through a prism?	**2**
	OR	
25.	Identify the defect shown by following diagram and draw a diagram of correcting that defect.  	**2**

26.	The following organisms form a food chain. Which of these will have the highest concentration of non-biodegradable chemicals? Name the phenomenon associated with it. (Insects, Hawk, Grass, Snake, Frog).	**2**
SECTION -C **Q.no. 27 to 33 are short answer type questions.**		
27.	Observe the given figure and answer the following questions.  (i) Write the complete balanced reaction for the reaction that takes place. (ii) What is the type of reaction? (iii) Is there any precipitate formed. (iv) If any precipitate formed, write the colour of the precipitate.	**3**
28.	Give reasons: (i)Copper is used to make hot water tanks but not steel. (ii) Platinum, gold and silver are used in jewellery. (iii) Aluminium is used to make utensils for cooking.	**3**
29.	Give Reasons: (i) Rings of cartilage are present in the trachea. (ii) Lungs always contain a residual volume of air. **OR**	**1+2**
29.	Why does absorption of digested food occur mainly in the small intestine?	**3**
30.	(i) “ The refractive index of kerosene is 1.44.” What is meant by this statement? (ii) A ray of light strikes a glass slab of an angle of incidence equal to 30° . Find the refractive index of glass such that the angle of refraction is 19.5° . (Take sin 19.5° = 1/3 and sin 30° = 1/2).	**3**
31.	Explain rainbow formation with the help of a diagram.	**3**

32.	Write two differences between direct current and an alternating current. How many times does AC used in India change direction in one second? **OR** What is the role of fuse, used in series with any electrical appliance? Why should a fuse with defined rating not be replaced by one with larger rating?	**2+1** **1+2**
33.	Why are bacteria and fungi called decomposers? List any two advantages of decomposers to the environment.	**1+2**
SECTION -D **Q.no. 34 to 36 are long answer questions**		
34.	The formula of four organic compounds are given below: $\overset{A}{C_2H_4}\ \ CH_3\overset{B}{C}OOH\ \ C_2H_5\overset{C}{O}H\ \ \overset{D}{C_2H_6}$ (i)Which one of these compounds *A*, *B*, *C* or *D* is a saturated hydrocarbon? (ii)Identify the organic acid and give its structural formula. (iii)Write one chemical test to distinguish between A and D (iv)Write one important use of B and C. OR (i)List in tabular form three physical properties on the basis of which ethanol and ethanoic acid can be differentiated. (ii) what is a soap? Why are soaps are not suitable for washing clothes when the water is hard?	**5** **(1)** **(1+1)** **(1)** **(1)** **(3)** **(2)**
35.	Distinguish between pollination and fertilisation. Mention the site and product of fertilisation in a flower. Draw a neat, labelled diagram of a pistil showing pollen tube growth and its entry into the ovule. **OR** (i) Reproduction is essentially a phenomenon that is not for survival of an individual but for the stability of a species. Justify. (ii) Describe sexually transmitted diseases and mention the ways to prevent them.	**5** **2+3**
36.	Describe the activity that shows that a current-carrying conductor experiences a force perpendicular to its length and the external magnetic field. How does Fleming' s left-hand rule help us to find the direction of the force acting on the current carrying conductor?	**3+2**
SECTION – E **Q.no. 37 to 39 are case-based/data-based questions with 2 to 3 short sub-parts. Internal choice is provided in one of these sub-parts.**		

37.	When electricity is passed through an aqueous solution of sodium chloride (called brine), it decomposes to form sodium hydroxide. The process is called the chlor-alkali process because of the products formed– chlor for chlorine and alkali for sodium hydroxide. (i)Write the chemical equation involved in this process? (ii)What are the substance that are formed at anode and cathode on chlor- alkali process? (iii)What are the uses of chlorine? (iv)Where does the sodium hydroxide solution is formed?	**4**
38.	Within minutes of a baby's birth, people start remarking about who this new baby resembles. 'Oh, he has his daddy's chin!' or 'She's got her mother's eyes!' but from where exactly do these similarities arise? Every individual has 46 chromosomes, 23 chromosomes from each parent. The chromosomes are composed of deoxyribonucleic acid or DNA that is tightly bundled. Now, certain segments of the DNA which are responsible for different traits in an individual are termed genes. Each chromosome contains over 20,000 genes. There is a lot of copying that has to take place to pass all these genes on from parents to a newly growing child. Understandably sometimes mistakes are made in the copying process. (i) What is a Gene? (ii) What is the importance of variation? (iii) 'Fathers are responsible for sex of a child.' Do you agree? Justify your answer. **OR** (iii) Girl foeticide disturbs the sex ratio. Comment.	**1** **1** **2** **2**

39.	The electrical energy consumed by an electrical appliance is given by the product of its power rating and the time for which it is used. The SI unit of electrical energy is Joule. Actually, Joule represents a very small quantity of energy and therefore it is inconvenient to use where a large quantity of energy is involved. So for commercial purposes we use a bigger unit of electrical energy which is called kilowatt hour. 1 kilowatt-hour is equal to 3.6 x 10^6 joules of electrical energy.	**1**
	(i) The energy dissipated by the heater is E. When the time of operating the heater is doubled, what will be the effect on energy dissipated by the heater?	**1**
	(ii) The power of a lamp is 60 W. Calculate the energy consumed in 1minute.	**2**
	(iii) The electrical refrigerator rated 400 W operates 8 hours a day. The cost of electrical energy is ₹ 5 per kWh. Find the cost of running the refrigerator for one day?	**2**
	OR	
	(iii) Calculate the energy transformed by a 5 A current flowing through a resistor of 2 Ω for 30 minutes?	

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SOCIAL SCIENCE HOLIDAY HOMEWORK
Class 10

Q1. Prepare well for Pre-Board II.Learn whole syllabus.

Q2. Solve the question paper of Pre-Board-I in your assignment notebooks.

Q3. Solve the latest sample paper issued by CBSE in your assignment notebooks
(https://cbseacademic.nic.in/web_material/SQP/ClassX_2022_23/SocialScience-SQP.pdf)

Q4. Learn and write minimum 10 one mark question from each chapter

INFORMATION TECHNOLOGY

REVISE SYLLABUS AND COMPLETE YOUT PROJECT FILE.