HOLY MISSION HIGH SCHOOL

[Affiliated to C.B.S.E, Delhi, +2 Level]

SAMASTIPUR - 848101

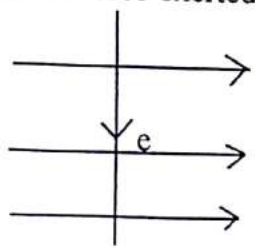Std.-X   F.M. - 80

Subject:- Science   Time : 3:00 hrs.

Section - A (Physics) - 26 Marks

1. What is the S.I. unit of magnetic field.   1
2. What is the direction of force exerted on electron   1

3. State one important characteristic of magnetic field line.   1
4. An electric appliance is connected with a source of 220 v supply. If it cosnumes 500 J of energy in one sec. find its power and current drawn by it   1
5. State Fleming's left hand rule. Write its one application   2
6. Write principle, construction and working of electric AC generator   2
7. Write three characteristics of ideal fuel   5
8. Define nuclear fission with reactions   5
9. Define electromagnetic induction   2
10. Two electric bulb of 100w and 200w are connected in parallel with a source of 220v. Find the total current drawn by these bulbs.   2
11. What are Ac and Dc electric current. Write the advantage of Ac over Dc.   4

Section - B (Chemistry) - 26 Marks

1. Fill in the blanks. :-   4x1=4
   (a) Acid combines with base to form .... and ....
   (b) In thermite process .... is used as reducing agent.
   (c) Sulphide ore is concentrated by .... process.
   (d) PH of blood is .....7:35 to 7:45.
2. What happens when :-   4x2=8
   (a) Zinc is added into $feSO_4$ aqueous solution.
   (b) Magnesium ribon is ignited in air.
   (c) A small piece of sodium is added in water.
   (d) Carbon dioxide gas is passed through aqueous solution of NaOH

P.T.O

$2Cu + 2H_2O \rightarrow 2Cu(OH)_2$

3. Explain with chemical reaction of the concentration of bauxite ore by chemical method.   3

4. How is pure copper obtained from the impure copper ? Explain with mechanism. 3

5. Classify the following salts as acidic, basic, or neutral   8x1=8

Na_2SO_4, Nacl, K_2SO_4, $Ca_3(PO_4)_2$, $Mgcl_2$, CH_3COONa, HCOOK, K_3PO_4 3

Section - C (Biology) - 28 Marks

1. Why are lungs divided into very small sae like structure called alveoli ?   1
2. What is the function of HCL in gastric juice ?   1
3. Draw a labelled diagram of stomata and mention its function.   2
4. What is dental caries ? How can it be prevented ?   3
5. Where are the adrenal glands located. How does our body respond when adrenaline is secreted into the blood.   3
6. Draw a labelled diagram of human heart and mention double circulation.   3
7.   (a) Which plant hormone is present in greater concentration in the area of rapid cell division.   5

    (b) Give one example of a plant growth promotor and a plant growth inhibitor.

8. Draw a labelled diagram of neuron? What are its different types?   5
9. Answer the following   5

    (a) Why do herbivores have longer intestine?

    (b) What is the main function of bile?

    (c) What are the end products of digestion of carbohydrate, fat and protein

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