#### SAMPLE PAPER - 2008 Class - X SUBJECT - SCIENCE

Time:2 hours and 30 min.

Max.Marks:60

#### **General Instructions** :

1 The question paper comprises of two sections A and B.You have to attempt both sections.

2 All questions are compulsory.

3 There is no overall choice. However, internal choice has been provided in all the three questions of five marks category. Only one option in each question to be attempted.

4 All questions of section A and section B are to be attempted separately 5 Questions1 to 6 in section A and 17 to 19 in section B are short questions and carry 1 mark each.

6 Questions 7 to 10 in section a and 20 to 24 in section B are short answer type questions and carry 2 marks each .

7 Questions 11 to 14 in section A and 25 to 26 in section B are short answer type questions and carry three marks each .

8 Questions 15 and 16 in section A and question 27 in section B are long answer type questions and carry 5 marks each.

# **SECTION-A**

1	Give example of a basic and a neutral salt.	1
2	What are olfactory indicators ? Give an example.	1
3	Why tooth pastes are generally basic?	1
4	Define the term Resistivity. Write its unit.	1
5	If the maginification of the body of size 2 cm is 3, What is the size of the image ?	1
6	What is meant by aperture of a spherical mirror?	1

<ul><li>7 How will you bring about the following conversions:</li><li>a. Ethanol to Ethanoic acid</li></ul>	2
<ul> <li>b. Ethanol to Sodium ethoxide</li> <li>8 How is Na<sub>2</sub>CO<sub>3</sub> obtained from NaCl (give equations)</li> </ul>	2
9 A metallic wire has resistance of 10hm per metre.What will be t resistance of a 6 m long wire of same material, but with 4 times area crosssection.	
10 A current of 4A flows through a 12 V car head light for 10 m How much energy transfer occurs during this time?	in. 2
11 Write the equations for the reactions that occur at the electrod during electrolysis a) NaCl (aq) b) NaCl (fused)	les 3
12 What are soaps? Give the advantages of detergents over soaps. Describe the mechanism of cleaning action of soaps.	3
13 Explain dispersion of light by a glass prism. What observation gave Newton the idea that the sunlight is made up of seven colours.	3
<ul> <li>14 An object of height 7.5 cm is placed at a distance of 35 cm from converging lens whose focal length is 15 cm</li> <li>1) What is the height of the image formed?</li> <li>2) What is the magnification produced by the lens</li> <li>3) Draw a ray diagram showing the image formation</li> </ul>	n a 3
15 a) Explain the formation of MgCl <sub>2</sub>	
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<b>OR</b> a) Define the term, functional group and give two examples of it.	
<ul><li>b) Explain the following reactions 1)Hydrogenation 2)Esterification</li><li>3)Saponification</li><li>2-</li></ul>	+3

16 a) Define one watt hour.

b) What is the difference between direct and alternating current. Give the advantage of AC over DC

c)Explain overloading and shortcircuiting.

#### OR

- a)What is the function of split rings in an electric motor ?
- b)State and explain Flemings left hand rule.
- c)What is the function of an earth wire? Why is it necessary to earth metallic appliances

### **SECTION-B**

17	What is biodiversity?	2
18	Name the two endocrine glands in the brain.	2
19	What happens at the synapse between two neurons?	2
20	How do Mendel's experiments show that traits are inhorithed independently?	erited 2
21	How does our body respond when Adrenaline is secreted into blood.	the 2
22	What are auxins? Where is it synthesised? Write its role in bendir plants towards light.	ng of 2
23	Give three differences between male and female reproductive system	n. 2
24	Describe the structure and function of nephron with the of a neat labeled diagram.	help 2
25	What is wind energy farm? Why it can be established only at spelocation Give reasons to support your answer	ecific 3
26	Explain the process of digestion of fats and Protein in our body	3
27	a) How does genes control the characteristics?	2+3

b)Explain the following 1)genetic drift 2) Acquired and inherited traits

## OR

- a) Differentiate between plant movements depend on growth and indepedend of it
- b) Discuss the transportation of water and food in plants 2+3