

**CLASS X**

**SAMPLE QUESTION PAPER 2**

**SCIENCE**

**SECTION A 1 MARKS EACH**

1. The pH of three acids A, B and C are 5.0, 2.8 and 3.5 at same temperature. Arrange them in the increasing acidity.
2. What is concrete?
3. Light enters from air to glass having the refractive index of 1.5. What is the speed of light in glass?
4. The human eye can focus objects at different distances by adjusting the focal lengths of the eye lens. This is called what?
5. What are the phytohormones? Name any two.
6. What is a retrovirus?
7. Give the Kepler's law.
8. What is the mode of nutrition in fungi?
9. Define the point source of the water pollution.
10. Name any two materials which are used to make the solar cells.

**SECTION B 2 MARKS EACH**

11. What are short circuiting and the overloading?
12. from where do the following take in oxygen:
  - a) prawn
  - b) rat
13. Why the transportation of the materials is necessary?
14. What is the resistance of a lamp which uses 20 A current when connected to the 220 V batteries?
15. What prevents us in making the use of the solar cells in our domestic purposes?
16. Draw the magnetic lines of the forces of the circular coil and the solenoid.

**SECTION C 3 MARKS EACH**

17. Which of the following is a slow and which is a fast reaction?
  - a) setting of cement
  - b) Formation of coal in the earth's crust.
  - c) Reaction between the salts and acids.
18. Why are the images obtained from the Hubbles telescope is better than the telescopes from the ground?
19. Explain the environmental laws.

**SECTION D 4 MARKS EACH**

20. Nervous and the hormonal system together perform the function of the control and coordination in the humans. Justify the statement.
21. The radius of the sun is  $7 \times 10^8$  meters. Its mean distance from the earth is  $1.5 \times 10^{11}$  meters. What is its angular diameter? The radius of the moon is 1740 km. its distance from the earth is 384000 km. what is its angular diameter? If the moon comes between the earth and the sun can it cover the sun? Why?
22. Explain the double fertilization with the diagrams.
23. Explain the digestion in humans.
24. give the full forms of:
- a) IUCD
  - b) HIV
  - c) OC
  - d) AIDS

**SECTION E 5 MARKS EACH**

25. How do the embryological and the homologous organs provide the information of the evolution?
26. Draw the diagram of the female reproductive organs and explain the function of each.
27. Explain the construction and the working of the DC motor with the diagram.
28. Explain the preparation of sulphuric acid with the equations.