

## CBSE Sample Paper Class 7 Science

### Set 4

**Time: 2 ½ Hours**

**Maximum Marks: 80**

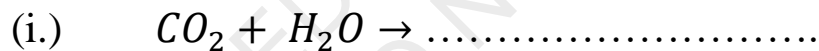
**Each of the following carriers 1mark.**

**I. Answer the following in a word or a sentence**

1. Name 2 modes of reproduction.
2. What is Rectilinear Propagation of light?
3. Name of the solution used in a portable fire extinguisher (in the steel cylinder).
4. Name the deficiency that causes the disease goitre.

**II. Answer the following in two or three sentences (Each carries 2 marks)**

**5. Complete the following Chemical equations and name the product.**



6. What do you understand by the terms electric induction and induced charges?
7. Mention any 2 symptoms of scurvy (Vitamin C Deficiency).
8. State the 2 laws of reflection.

9. Given below is the diagram of yeast.

- i. Name the method of reproduction-shown.
- ii. Name another organism that reproduces by the same method.



**III. Questions 10-21 are short answer type question carrying 3 marks each.**

10.

a) Differentiate between Binary fission and Regeneration.

b) Mention the common method of reproduction in

- i. Mosses
- ii. Spirogyra.

11. Why are the telephone wires kept slightly loose when fixed in the summer?

12. (a) What is the principle behind a Pinhole Camera?

(b) List all the characteristics of an image formed by a pinhole camera.

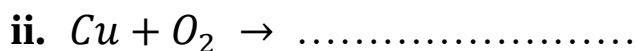
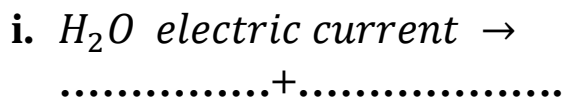
13. (a) Mention 2 materials that absorb sound.

(b) The Walls and ceilings of big auditoriums are covered with sound absorbing materials. Why?

14. (a) What percentage of fresh water is available for human consumption on the Earth?

(b) State one application of high latent heat of fusion of ice in our daily life.

**15. Complete and balance the chemical equations**



16. (a) Name the acid used in purification of gold.

(b) Write any 2 properties of salts.

17. (a) What is a G.L.E?

(b) Name the type of charge produced on an ebonite rod, when rubbed with fur?

18. (a) Name 2 international health organizations.

(b) Mention any 2 characteristics of good health.

(i) What is malnutrition?

19. Give any 3 differences between insect pollinated flowers and wind pollinated flowers?

20. (a) Explain Sea Breeze.

OR

(b) An iron ball of mass 2 Kg is heated, such that its temperature is raised from  $10^\circ C$  to  $50^\circ C$ . If the specific heat capacity for iron is  $Kg^\circ C$ . Calculate the quantity of heat energy supplied to iron.

21. (a) Differentiate between concave and convex mirror.

(b) State 2 uses of plane mirrors.

**IV. Questions 22-27 carries 5 Marks each**

22. (a) Draw a neat labeled diagram showing the process of Fertilization in flower.

(b) Write down the events taking place during fertilization.

OR

(a) With the help of a neat labeled diagram explain multiple fission in Amoeba.

23. (a) Name the only liquid where conduction takes place.

(transmission of heat by conduction).

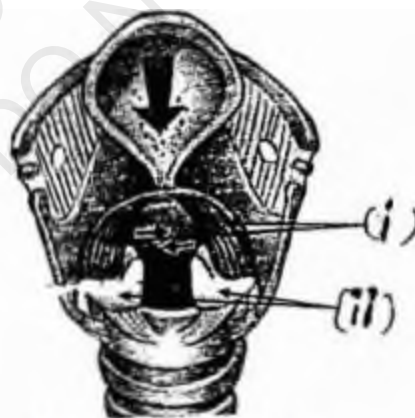
(b) With the help of a labeled diagram, Explain an experiment to show transmission of heat by convection in liquids. (Diagram and explanation).

24. (a) What is an eclipse?

(b) What precaution will you take for viewing any kind of Solar eclipse?

(c) Draw a neat labeled ray diagram of the image formed by concave mirror when an object is placed at center of curvature.

25. (a) Identify and label.



Rear view of larynx

(b) What do you understand by the term frequency of vibration?

(c) "Sound cannot travel through Vacuum". Explain with the help of an

experiment (Diagram not needed).

**26.** (a) What is Water Cycle? Explain.

(b) State 2 methods to minimize agricultural and industrial pollution.

**27.** (a) Write the formula and atomicity of elements Sulphur and Neon.

(b) What is Brownian movement?

(c) Write 2 differences between Mixtures and Compounds.

(d) Write Chemical formula and one use of Washing soda.

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