

Annual Examination 2006-2007

SUB: SCIENCE
STD VII

TIME : 3 HOURS
MAX.MARKS: 100

SET -A

INSTRUCTIONS :

- a) All questions are compulsory.
- b) You are to attempt only one option in case of an internal choice.

I. Answer the following in a word or a sentence (Each carries 1 mark).

[1x10 =10]

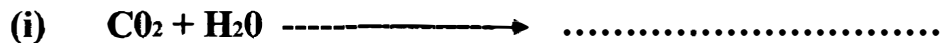
1. Name 2 modes of reproduction.
2. Define calorie.
3. What is Rectilinear Propagation of light?
4. What is an echo?
5. Mention any 1 condition for the formation of shadow.
6. What is the symbol of an element lead?
7. Name of the solution used in a portable fire extinguisher (in the steel cylinder).
8. Name the gas produced during lightning (good for the plants)
9. Name the deficiency that causes the disease goitre.
10. Define luminous bodies.

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

[2x12=24]

11. List any 2 advantages of Vegetative Reproduction.
12. Differentiate between Boiling and Liquefaction.
13. What is regular reflection? State one advantage of regular reflection.
14. Why is thunder heard after the flash of lightning?
15. What is Saline water? Why is it unfit for irrigation?
16. Write any 2 characteristics of non-metals.

17. Complete the following Chemical equations and name the product.



18. What do you understand by the terms electric induction and induced charges?

19. Mention any 2 symptoms of scurvy (Vitamin C Deficiency).

20. State the 2 laws of reflection.

21. Given below is the diagram of yeast.

(i) Name the method of reproduction-shown.

(ii) Name another organism that reproduces by the same method.



22. List any 2 practical applications of good conductors.

III. Questions 23-34 are short answer type question carrying 3 marks each. [3x12=36]

23. (a) Differentiate between Binary fission and Regeneration.

(b) Mention the common method of reproduction in (i) Mosses

(ii) Spirogyra.

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

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

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

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

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

27. (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.
28. Complete and balance the chemical equations.
 (i) H_2O electric current \longrightarrow +.....
 ii) $\text{Cu} + \text{O}_2 \longrightarrow$
 (iii) $\text{Mg} + \text{O}_2 \longrightarrow$
- 29.(a) Name the acid used in purification of gold.
 (b) Write any 2 properties of salts.
30. (a) What is a G.L.E?
 (b) Name the type of charge produced on an ebonite rod, when rubbed with fur?
31. (a) Name 2 international health organizations.
 (b) Mention any 2 characteristics of good health.
 (c) What is malnutrition?
32. Give any 3 differences between insect pollinated flowers and wind pollinated flowers?
33. (a) Explain Sea Breeze.

OR

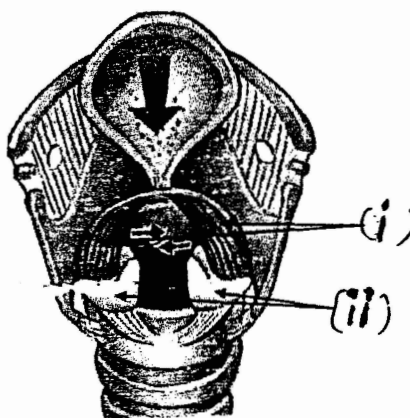
(b) An iron ball of mass 2 Kg is heated, such that its temperature is raised from 10^0 C to 50^0 C .If the specific heat capacity for iron is $470 \text{ J/Kg}^0 \text{ C}$. Calculate the quantity of heat energy supplied to iron.

- 34.(a) Differentiate between concave and convex mirror.
 (b) State 2 uses of plane mirrors.

IV. Questions 35-40 carries 5 Marks each [5x6-30]

35. (a) Draw a neat labeled diagram showing the process of Fertilization in flower.
 (b) Write down the events taking place during fertilization.
- OR
- (c) With the help of a neat labeled diagram explain multiple fission In Amoeba.
36. (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).

37. (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 centre of curvature.
38. (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).
39. (a) What is Water Cycle? Explain.
 (b) State 2 methods to minimize agricultural and industrial pollution.
40. (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 (i) Chemical formula and (ii) one use of Washing soda.