



Standard 8

SCIENCE

Time: 2.30 Hrs.

Marks: 100

I. Choose the best answer:

12×1=12

- 1) Unit of pressure is
a) Pascal b) Nm^{-2} c) Poise d) Both a and b
- 2) If the image and object distance is same, then the object is placed at
a) infinity b) at F c) between F and P d) at C
- 3) The process of converting a liquid into a solid is called _____.
a) Sublimation b) Condensation c) Freezing d) Deposition
- 4) Sound waves travel very fast in
a) air b) metals c) vacuum d) liquids
- 5) Symbol of mercury is
a) Ag b) Hg c) Au d) Pb
- 6) _____ undergoes rusting.
a) Tin b) Sodium c) Copper d) Iron
- 7) Water changes to ice at
a) 0°C b) 100°C c) 102°C d) 98°C
- 8) Red ant sting contains _____.
a) acetic acid b) sulphuric acid c) oxalic acid d) formic acid
- 9) Common cold in human is caused by _____.
a) plasmodium b) influenza c) vibrio cholera d) aphthovirus
- 10) Binomial Nomenclature was introduced in the year
a) 1970 b) 1975 c) 1978 d) 1623
- 11) _____ cells are specialised cells that can be transformed into any kind of cells.
a) Nerve b) Stem c) Heart d) Bone
- 12) Adam's apple is the growth of the _____.
a) pharynx b) thyroid c) larynx d) parathyroid

II. Fill in the blanks:

5×1=5

- 13) The pressure of a liquid column _____ with the depth of the column.
- 14) _____ is a device that protects building from lightning strike.
- 15) The process of conversion of iron into hydrated form of oxides is called as _____.
- 16) _____ is the smallest particle of an element.
- 17) _____ muscle makes pupil of eyes wider.

III. State True or False. If false correct the statement:

5×1=5

- 18) The process of converting a substance from solid to gaseous state is called condensation.
- 19) Water can conduct electricity.
- 20) CFC is a pollutant.
- 21) Chicken pox is a communicable disease.
- 22) Human beings are warm blooded in nature.

IV. Match the following:

5×1=5

- | | | |
|-----------------------|---|----------------|
| 23) Sublimation | - | Water |
| 24) Rusting | - | Vaccine |
| 25) Universal solvent | - | James Chadwick |
| 26) Edward Jenner | - | Iron |
| 27) Neutron | - | Solid to gas |

V. Answer any 10 of the following:

10×2=20

- 28) State Pascal's law.
- 29) Write a note on convection.
- 30) Give any two applications of convex mirror.
- 31) Define Alchemy.
- 32) What happens when an iron nail is placed in copper sulphate solution?
- 33) What is global warming?
- 34) What is a neutralization reaction?
- 35) What are the hazards of noise pollution?
- 36) **Match it:**

Cyanophyceae	-	Green Algae
Chlorophyceae	-	Blue Green Algae
Phaeophyceae	-	Red Algae
Rhodophyceae	-	Brown Algae
- 37) Tabulate the differences between aerobic and anaerobic respiration.
- 38) How is the skeleton of a bird well-suited for flying?
- 39) List out the changes which occur during puberty?
- 40) Who discovered penicillin? Which diseases can be prevented by vaccination?

VI. Answer any 8 of the following questions briefly:

8×4=32

- 41) Explain how friction can be minimised.
- 42) Explain series and parallel circuit.
- 43) Explain the working of a periscope.
- 44) a) Write the symbols for the following elements.
(i) Oxygen (ii) Gold (iii) Calcium (iv) Iron
- b) Mention the uses of the following compounds.
(i) Baking soda (ii) Bleaching powder
- 45) What is dry ice? What are its uses?
- 46) a) Write the names of the following compounds.
(i) CO (ii) N₂O
- b) Balance the following chemical equations.
(i) $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$ (ii) $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
- 47) What are the uses of acids?
- 48) How micro organisms are useful in the field of medicine?
- 49) Write the differences between algae and fungi.
- 50) Draw the structure of human eye and label its parts.

VII. Answer in detail:

3×7=21

- 51) Explain the working of thermos flask.

(OR)

Describe the structure and functions of human ear.

- 52) a) Tabulate any four differences between metals and non-metals.
- b) Name the elements with the following symbols.
(i) Na (ii) W (iii) U (iv) Ba (v) Al (vi) Cu

(OR)

- a) What are the effects of acid rain? How can we prevent them?
- b) Why does the fish die when it is taken out of water?
- 53) Write the names of medicinal plants and explain their uses.

(OR)

Briefly describe the menstrual cycle.
