



Standard 8

SCIENCE

Time: 2.30 Hrs.

Marks: 100

I. Choose the best answer:

12×1=12

- 1) SI unit of temperature is _____.
a) celsius b) fahrenheit c) kelvin d) ampere
- 2) Which of the following liquids has more viscosity?
a) Water b) Grease c) Ghee d) Coconut oil
- 3) The spherical mirror used as a rear view mirror in the vehicle is
a) Concave mirror b) Plane mirror
c) Convex mirror d) None of the above
- 4) Conduction is the way of heat transfer which takes place in a _____.
a) solid b) liquid c) gas d) all of them
- 5) If two plane mirrors are inclined to each other at an angle of 90°; find the number of images formed _____.
a) 2 b) 7 c) 5 d) 3
- 6) The non-metal which conducts electric current is
a) Carbon b) Oxygen c) Sulphur d) Aluminium
- 7) _____ undergoes rusting.
a) Tin b) Sodium c) Copper d) Iron
- 8) Aerated water contains
a) Hydrogen b) Carbon dioxide c) Oxygen d) Nitrogen
- 9) _____ is a Prokaryotic micro organisms.
a) Virus b) Algae c) Fungi d) Bacteria
- 10) One of the following is an edible mushroom
a) Polyporus b) Agaricus c) Pennicilium d) Aspergillus
- 11) _____ is tough and thick white sheath that protects the inner part of the eye.
a) Sclera b) Conjunctiva c) Cornea d) Iris
- 12) Microorganisms are measured in _____.
a) cm b) mm c) meter d) micron

II. Fill in the blanks:

5×1=5

- 13) Hydraulic lift works under the principle of _____.
- 14) Focal length of spherical mirror is 10 cm; its radius of curvature is _____.
- 15) The process of conversion of iron into hydrated form of oxide is called _____.
- 16) The infecting virus particle found outside the host cell is _____.
- 17) Xylem and Phloem are absent in _____ plants.

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

5×1=5

- 18) Liquid pressure decreases with the decrease of depth.
- 19) The process of converting a substance from solid state to gaseous state is called condensation.
- 20) CFC is a pollutant.
- 21) Chicken Pox is a communicable disease.
- 22) Pinus is a closed seeded plant.

IV. Match the following:

5×1=5

- | | |
|-------------------------|---------------------------------|
| 23) Dispersion of light | - Respiration of living animals |
| 24) Nitrogen | - Fertilizer |
| 25) Oxygen | - Fire extinguisher |
| 26) Carbon dioxide | - Coolant |
| 27) Dry ice | - Rainbow |

V. Answer any 10 questions in very short:

Question Number 30 compulsory.

- 28) What is electric current?
- 29) State Pascal's law.
- 30) Speed of light in air is $3 \times 10^8 \text{ ms}^{-1}$ and speed of light in a medium is $2 \times 10^8 \text{ ms}^{-1}$. Find the refractive index of the medium with respect to air.
- 31) Name three types of heat transfer.
- 32) Why are utensils made up of aluminium and brass?
- 33) Define Alchemy.
- 34) Why photosynthesis is a chemical reaction?
- 35) What is a dry ice? What are its uses?
- 36) What are antibiotics?
- 37) Write the difference between algae and fungi.
- 38) Define - Metabolism.
- 39) Tabulate the difference between aerobic and anaerobic respiration.
- 40) Give any two uses of Convex mirror.

VI. Answer any 8 questions briefly:

8×4=32

- 41) a) Define Ampere.
b) Convert 60° into radian.
- 42) Explain how friction can be minimised?
- 43) a) State laws of reflection.
b) Define refractive index of a medium.
- 44) Explain the working Thermos Flask.
- 45) a) Name the elements with the following symbols.
(a) Na (b) Ba (c) Al (d) U
b) Name the metals that are used in Jewellery.
- 46) Explain how food items are spoiled by Chemical Reactions.
- 47) List out the uses of nitrogen.
- 48) Write a short note on Probiotics.
- 49) Write difference between monocot and dicot plants.
- 50) a) Mention the function of Alveoli.
b) Why the human eye is compared with camera?

VII. Answer in detail:

3×7=21

- 51) a) List out the basic quantities with their units.
b) Define specific heat capacity.

(OR)

Describe an experiment to prove that the pressure in a liquid increases with depth.

- 52) What are the effects of acid rain? How can we prevent them?

(OR)

- a) Write five properties of metalloids.
- b) Why are bells made up of metals?

- 53) How microorganisms are useful in the field of medicine?

(OR)

Draw the structure of human eye and label its parts.