

V8S

Virudhunagar District  
Common Quarterly Examination - September 2023

## 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) Penicillium                      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  $60^\circ$  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.