

SECOND MID TERM TEST - 2024

Standard - VIII

Time : 1.30 hrs

SCIENCE

Marks: 50

I. Choose the correct answer:-

5×1=5

- 1) Fuse is _____
 - a) a switch
 - b) a wire with low resistance
 - c) a wire with high resistance
 - d) a protective device for breaking an electric circuit
- 2) Sound waves travel very fast in _____
 - a) air
 - b) metals
 - c) vacuum
 - d) liquids
- 3) In water, hydrogen and oxygen are combined in the ratio of _____ by mass
 - a) 1:8
 - b) 8:1
 - c) 2:3
 - d) 1:3
- 4) Cockroach moves with the help of its _____
 - a) leg
 - b) bone
 - c) muscular foot
 - d) whole body
- 5) What happens when large number of electrons combine together in clouds.
 - a) cyclone
 - b) Lightning
 - c) earthquake
 - d) rain

II. Fill in the given blanks:-

5×1=5

- 6) The body which has lost electrons becomes _____
- 7) Sound travels in the form of _____
- 8) _____ is the smallest particle of an element
- 9) The place where two bones meet is termed as _____
- 10) The hardest working muscle is in _____

III. Match the following:-

5×1=5

- | | | |
|----------------------------|---|------------------------------|
| 11) Two similar charges | - | Frequency more than 20,000Hz |
| 12) Two dissimilar charges | - | 330 ms ⁻¹ |
| 13) Ultra sonics | - | attract each other |
| 14) Infra sonics | - | repel each other |
| 15) Speed of sound in air | - | Frequency below 20Hz |

IV. Answer briefly: (any 10)

10×2=20

- 16) What is earthing?
- 17) Give some uses of electroplating.

(2)

VIII SCIENCE

- 18) One should not use an umbrella while crossing an open field during thunder storm - why?
- 19) What are the hazards of noise pollution? (any 2 points)
- 20) Give an example to show that light travels faster than sound?
- 21) A sound has a frequency of 50Hz and a wavelength of 10m. What is the speed of the sound?
- 22) State the law of conservation of mass?
- 23) What is a chemical equation?
- 24) Write the chemical formula for the following compounds?
a) Aluminium Sulphate b) Magnesium oxide
- 25) State whether the following is true or false. If false, correct the statement
a) Skull in human consists of 22 bones.
b) Cardiac muscle is a voluntary muscle.
- 26) What is Cranium?
- 27) How is arthritis caused in humans?

3×5=15

V. Answer in detail:

- 28) What is electroscopes? Explain how it works?
What steps should be taken to reduce the effect of noise pollution.
- 29) Write the skeleton equation for the following word equation and then balance them.
a) Carbon + Oxygen → Carbon dioxide
b) Phosphorus + Chlorine → Phosphorus Penta chloride
c) Sulphur + Oxygen → Sulphur dioxide
d) Magnesium + hydrogen chloride → Magnesium chloride + Hydrogen

[or]

Balance the following chemical equation:

- a) $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$ b) $\text{Ca} + \text{N}_2 \rightarrow \text{Ca}_3\text{N}_2$
c) $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$ d) $\text{CaCO}_3 + \text{HCl} \rightarrow \text{CaCl}_2 + \text{CO}_2 + \text{H}_2\text{O}$
- 30) What are the functions of skeleton in human body?
Name the different types of joints? Give one example for each type.

[or]
