



Standard 8

SCIENCE

Time: 1.30 Hrs.

Marks: 50

I. Choose the most appropriate answer:

10×1=10

- 1) The electrification of two different bodies on rubbing is because of the transfer of
 - a) neutrons
 - b) electrons
 - c) protons
 - d) protons and neutrons
- 2) Fuse is
 - a) a switch
 - b) a wire with low resistance
 - c) a wire with high resistance
 - d) a protective device for breaking on electric circuit
- 3) The range of audible frequency for the human ear is
 - a) 2 Hz to 2000 Hz
 - b) 20 Hz to 2000 Hz
 - c) 20 Hz to 20000 Hz
 - d) 200 Hz to 20000 Hz
- 4) Sound waves travel very fast in
 - a) air
 - b) metals
 - c) vacuum
 - d) liquids
- 5) Cathode rays are made up of
 - a) neutral particles
 - b) positively charged particles
 - c) negatively charged particles
 - d) None of the above
- 6) Which of the following is a water pollutant?
 - a) Lead
 - b) Alum
 - c) Oxygen
 - d) Chlorine
- 7) Water changes to ice at
 - a) 0°C
 - b) 100°C
 - c) 102°C
 - d) 98°C
- 8) Why do underwater divers wear fin - like flippers on their feet?
 - a) To swim easily a fish
 - b) To look like a fish
 - c) To walk on water surface
 - d) To walk over the bottom of the sea (sea bed)
- 9) Adam's apple is the growth of the _____.
 - a) pharynx
 - b) thyroid
 - c) larynx
 - d) parathyroid
- 10) During menstruation, the progesterone level is _____.
 - a) decreased
 - b) increased
 - c) ceased
 - d) normal

II. Fill in the blanks:

5×1=5

- 11) _____ is a device that protects building from lightning strike.
- 12) Pitch of a sound depends on the _____ vibration.
- 13) An element is composed of _____ atoms.
- 14) The boiling point of water is _____.
- 15) The place where two bones meet is termed as _____.

III. Match it:**4×1=4**

- | | | |
|---------------------------------|---|---------------------|
| 16) Law of conservation of mass | - | Sir William Crookes |
| 17) Law of constant proportion | - | James Chadwick |
| 18) Cathode rays | - | Joseph Proust |
| 19) Neutrons | - | Lavoisier |
| | - | Goldstein |

IV. State true or false. If false correct the statement:**5×1=5**

- 20) Water can conduct electricity.
- 21) Sea water is suitable for irrigation as it contains dissolved salts.
- 22) The density of water will not change at all temperature.
- 23) There are 12 pairs of ribs in human body.
- 24) Cardiac muscle is a voluntary muscle.

V. Answer any 8 questions shortly:**8×2=16**

- 25) How changes are produced by friction?
- 26) Give two uses of electroplating.
- 27) A sound has a frequency of 50 Hz and a wavelength of 10m. What is the speed of the sound?
- 28) What is an ultrasonic sound?
- 29) Write the name of the following compounds:
(a) CO (b) N₂O
- 30) State the law of conservation of mass.
- 31) Give reason: Ice floats on water
- 32) Define: Specific heat capacity
- 33) Differentiate axial and appendicular skeleton.
- 34) Define : Muscle
- 35) **Match it:**
- | | | |
|--------------|---|--------------------|
| Puberty | - | restosterone |
| Adam's apple | - | muscle development |
| Androgen | - | sexual maturity |
| ICSH | - | Change in voice |
- 36) What is fertilization?

VI. Answer any 2 questions briefly:**2×5=10**

- 37) Explain series and parallel circuit.
- 38) What steps should be taken to reduce the effect of noise pollution?
- 39) Write the chemical formula for the following compounds.
(a) Aluminium sulphate (b) Silver nitrate
(c) Magnesium oxide (d) Barium chloride
- 40) Name the different types of joints? Give one example for each type.