

- Q.27 Name 5 classes of vertebrates. Compare them on the basis of their chambers of heart.
- Q.28 State difference between porifera and coelentrata.
- Q.29 Write a short note on composition of air?
- Q.30 How are clouds formed? Explain briefly.
- Q.31 In what ways the water cycle helps marine organism?
- Q.32 What are the possible consequences of chemical disasters?
- Q.33 What precautions should be taken when we are indoors during earth quake?
- Q.34 Write a short note on the importance of yoga.
- Q.35 What is the difference between infectious and non infectious diseases?

Section-D

Note: Long answer questions. Attempt any Two question out of Three Questions. (2x10=20)

- Q.36 A. Define noise pollution. What are the causes of noise pollution?
 B. Define reflection of light. Explain it by drawing a ray diagram.
- Q.37 How can you differentiate between living and non-living objects?
- Q.38 Define acid rain. What are the causes and harmful effects of acid rain?

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Skill diploma in Printing & Packaging **Sub : Basic Sciences**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple Choice Questions. All questions are compulsory. (10x1=10)

- Q.1 Speed of light in air is
 a) 3×10^8 m/s b) 3×10^8 km/s
 c) 30×10^8 m/s d) 3×10^{10} m/s
- Q.2 Sound travels fastest in
 a) Air b) Water
 c) Iron d) None
- Q.3 SI unit of current is
 a) ohm b) coulomb
 c) ampere d) eV
- Q.4 Temperature measures
 a) Amount of heat contained in a body.
 b) Amount of heat required to heat a body.
 c) Degree of hotness.
 d) Kinetic energy of molecules.
- Q.5 The branch of biology which deals with the principles and practices of classification of plants and animals is

- a) Taxonomy b) Morphology
 c) Ecology d) Geology
- Q.6 Which one is a true fish
- a) Jelly fish b) Star fish
 c) Dog fish d) Silver fish
- Q.7 Water pollution is
- a) Addition of undesirable substances to water
 b) Removal of desirable substances from water
 c) Change in pressure of water bodies
 d) Change in temperature of water bodies
- Q.8 Soil erosion can be prevented by
- a) Deforestation
 b) Raising forests
 c) Excessive use of fertilizers
 d) Overgrazing by animals
- Q.9 _____ can prevent draught.
- a) Rain water harvesting
 b) Deforestation
 c) Washing water
 d) None of the above
- Q.10 Which of the following is not an infectious disease?
- a) Anemia b) Common cold
 c) Malaria d) Chicken pox

Section-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Which wave property determines loudness of sound?
- Q.12 SI unit of conductance is _____.
- Q.13 Absolute zero means _____ $^{\circ}\text{C}$.
- Q.14 Define biodiversity.
- Q.15 State 2 examples of renewable energy sources.
- Q.16 Smog is a combination of _____ and _____.
- Q.17 Name 2 natural disasters.
- Q.18 The point on the earth's surface which is directly above the focus is known as _____.
- Q.19 Define balanced diet.
- Q.20 Give 2 examples of food rich in carbohydrates.

Section-C

- Note:** Short answer type Question. Attempt any Twelve questions out of Fifteen Questions. (12x5=60)
- Q.21 State difference between noise and music. (5 points)
- Q.22 What is refraction of light? Discuss laws of refraction.
- Q.23 What is resistance? Give its SI unit.
- Q.24 State Ohm's law. Give its mathematical formula.
- Q.25 Derive relation between different scales of temperature.
- Q.26 Give difference between convection and radiation. (any 5)