

- 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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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 _____ °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)