

- Q.31 State 5 human activities responsible for water pollution.
- Q.32 What are the possible causes of draught?
- Q.33 Prepare a chart to show DO'S and DONTs at time of earthquake.
- Q.34 Write a short note on the importance of exercise.
- Q.35 What is the difference between infectious and non-infectious diseases?

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Describe water cycle in detail.
- Q.37 On what basis are plants and animals put into different categories?
- Q.38 What is cyclone? Mention steps of precautions required to minimize impact of cyclones.

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### Level - 1 / Branch : Skill Diploma in Printing & Packaging Subject:- Basic Sciences

Time : 3Hrs.

M.M. : 100

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which mirror is used by dentist to examine a small cavity
- convex
  - plane
  - concave
  - Combination of convex and concave
- Q.2 What is the relation between refractive index  $n$  and wavelength of light  $\lambda$
- $n \propto \lambda$
  - $n \propto 1/\lambda$
  - $n \propto \lambda^2$
  - $n \propto 1/\lambda^2$
- Q.3 Basic instrument used to detect current is
- ammeter
  - voltmeter
  - galvanometer
  - none of the above
- Q.4 Which Temperature scale is independent of physical properties of substance used in thermo meter
- Celsius scale
  - Fahrenheit scale
  - Kelvin scale
  - Reaumur Scale

- Q.5 5 kingdom classification was given  
 a) Morgan                      b) Whittaker  
 c) Linnaeus                    d) Haeckel
- Q.6 Which one is not an aquatic animal  
 a) Jelly fish                    b) Hydra  
 c) Corals                      d) Filaria
- Q.7 Biotic components of biosphere is not constituted by  
 a) Producers                  b) Consumers  
 c) Decomposers              d) None of the above
- Q.8 Which step is not involved in water cycle  
 a) Evaporation                b) Transpiration  
 c) Precipitation              d) Photosynthesis
- Q.9 The range of richter scale is  
 a) 0-5                          b) 0-7  
 c) 0-9                          d) 0-11
- Q.10 Which of the following can make you ill if you come in contact with an infected person  
 a) High B P                    b) Sneezing  
 c) Blood cancer              d) Anemia

#### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define wavelength of a sound.  
 Q.12 SI unit of current is \_\_\_\_\_  
 Q.13 Absolute zero means \_\_\_\_\_ k.

- Q.14 The phylum in which organisms contain pseudocoeleom is \_\_\_\_\_  
 Q.15 State 2 examples of non-renewable energy sources  
 Q.16 CO<sub>2</sub> is one of the green house gases (T/F)  
 Q.17 Name 2 man made disasters.  
 Q.18 \_\_\_\_\_ is proper and efficient handling of disaster affecting regions.  
 Q.19 Define balanced diet.  
 Q.20 Give 2 examples of food rich in proteins.

#### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Define loudness and pitch of a sound?  
 Q.22 What is reflection of light? Discuss laws of reflection?  
 Q.23 What is conductance? 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 conduction (any 5)  
 Q.27 State difference between amphibians and fish.  
 Q.28 Crocodiles have 4 chambered heart. But are still reptiles. Give reason.  
 Q.29 Name 2 Components of biosphere. Explain them.  
 Q.30 Write a short note on composition of air?