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Roll No. ....

**Level 3 / Sem-1**  
**(DVOC) Interior Design**  
**Subject : Applied Sciences**

Time : 2 Hrs.

M.M. : 50

**SECTION-A**

**Note:** Very short questions. Attempt all ten questions.  
(10x1=10)

- Q.1 Write the electronic configuration of Nitrogen.  
(Atomic No - 7)
- Q.2 Define Reflection.
- Q.3 Define Derived Units.
- Q.4 The shape of 2p orbital is\_\_\_\_\_.
- Q.5 pH value of basic solution is\_\_\_\_\_ than 7.
- Q.6 Name any one method to prevent corrosion.
- Q.7 S.I unit of power is\_\_\_\_\_.
- Q.8 Expand ppm
- Q.9 Heat is defined as\_\_\_of all molecules of a body.

Q.10 Write formula of frequency of vibrations in spring mass system.

### SECTION-B

**Note:** short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

Q.11 Write down the main postulates of Rutherford's Atomic Model.

Q.12 Write down the method of preparation and uses of Polythene.

Q.13 Differentiate between Sludge and Scale formation.

Q.14 Explain the Dry / Chemical. theory of corrosion.

Q.15 Write uses of dimensions. Explain any one.

Q.16 State Kirchoff's Law and Wein's Law of heat Radiation.

Q.17 Differentiate between thermo plastics and thermosetting plastics with examples.

Q.18 Enlist the difference between free and Forced Vibrations.

### SECTION-C

**Note:** Long answer questions. Attempt any one questions out of two questions. (1x10=10)

Q.19 i) Enlist the differences between Ionic bonding and Covalent bonding with examples.

ii) Write down the classification of Water and give the main causes of hardness of water.

Q.20 Write notes on any two:-

a) Overhead Projector

b) Pyrometer

c) Coordinate bond