

SECTION-B

Note: Short answer type questions. Attempt any Six questions out of eight questions. (6x5=30)

- Q.11 Define vibrations. What is the effect of vibrations on buildings and bridges?
- Q.12 Write the laws of radiation.
- Q.13 Discuss reflection of wave from a plane surface
- Q.14 What is dimension analysis. Write its uses
- Q.15 Write 5 differences between thermoplastic polymer and thermosetting polymer
- Q.16 Explain covalent bond with example and write its properties
- Q.17 Name various quantum numbers of atom and write their significance
- Q.18 Write values of n,l,m and s for 2s and 3d orbitals

SECTION-C

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

- Q.19 Define hard water. Write disadvantages of hard water in boilers.
- Q.20 Explain the construction and working of thermoelectric thermometer with help of neat diagram.

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**Level - 3, 1st Sem. / 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 PH value of pure water is
- Q.2 SI unit of temperature is
- Q.3 A periodic force is used in forced vibration (True/False)
- Q.4 Full form of MKS is
- Q.5 Write electronic configuration of Na (atomic number 11)
- Q.6 The ability of material to be drawn without fracture is called (Conductance / Ductility)
- Q.7 Write an example of thermoset plastic
- Q.8 Write De Broglie equation
- Q.9 Write Dimension of force
- Q.10 Write the full form of OHP

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