

SECTION-B

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

Q.11 Write all the four quantum no. with their symbols and their physical significance.

Q.12 Define

- i) atomic radii ii) ionization energy

Q.13 Write atleast five physical properties for metals.

Q.14 Explain electron could model for metallic bonding.

Q.15 Write down any five characteristics of a good fuel.

Q.16 Write down disadvantage of using hard water in boilers.

Q.17 Explain the methods hot dipping and metal cladding for the prevention of corrosion.

Q.18 Write down any five differences between thermoplastics and thermosetting plastics.

SECTION-C

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

Q.19 Define hard water. Explain methods for the removal of temporary hardness of water.

Q.20 i) Define fuels, Explain properties for the gaseous fuels CNG and LPG
ii) Explain solid, liquid, gaseous fuels with examples.

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Roll No.

1st Sem, Level 3 / DVOC (Ref. & Air Cond., Medical Imaging Tech., Auto. Servicing, ITM, PT, SD, AMT, FP, EMS)

Subject : Applied Chemistry

Time : 2 Hrs.

M.M. : 50

SECTION-A

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

Q.1 Magnetic quantum no. is denoted by _____

Q.2 Atomic no. for Neon is 11 (T/F)

Q.3 No. of groups in modern periodic table are _____

Q.4 The property of metal to convert it into sheets is called _____

Q.5 LPG is an example for _____ type of fuel.

Q.6 Formula of producer gas is _____ .

Q.7 Bicarbonates of Ca and Mg are responsible for the hardness of water. (T/F)

Q.8 Loss of electrons is called _____ (oxidation /reduction)

Q.9 Bakelite is an example for _____ type of polymer. (thermoplastic/Thermosetting Plastic).

Q.10 _____ is monomer is P.V.C.