

No. of Printed Pages : 4
Roll No.

182512

1st Year / Textile Design
Subject : Applied Science

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory
(6x1=6)

Q.1 pH of an acid is

- a) 7
- b) < 7
- c) > 7
- d) none of these

Q.2 The number of moles dissolved per litre of the solution is called

- a) Normality
- b) Molality
- c) Molarity
- d) Formality

Q.3 Which is a good conductor

- a) Wood
- b) Plastic
- c) Nylon
- d) Copper

Q.4 Formula of kinetic Energy is

- a) mgh
- b) $1/2mv^2$
- c) mv
- d) none of these

(40)

(4)

182512

(1)

182512

- Q.5 S.I. Unit of work is
a) Newton b) Joule
c) Watt d) Pascal
- Q.6 Pressure in Fluids is equal to
a) hdg b) mgh
c) mv d) mc^2

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Give any two examples of strong Electrolyte.
- Q.8 Define Solution.
- Q.9 What is the effect on surface Tension with rise in Temperature?
- Q.10 Write down Formula for Potential Energy?
- Q.11 Define Power.
- Q.12 S.I. Unit of Stress is _____

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Define Work. What do you mean by Positive, Negative and Zero work?

- Q.14 Differentiate between Absolute and Atmospheric Pressure.
- Q.15 Differentiate between Heat and Temperature on the basis of K.E. of Molecules.
- Q.16 What do you mean by Surface Tension? Write down two applications of surface Tension.
- Q.17 Define Viscosity. What is the effect on Viscosity with rise in Temperature?
- Q.18 Explain Electroplating.
- Q.19 Explain the process of Electrometallurgy.
- Q.20 Explain Solute and Conductor with one example each.
- Q.21 Drive the expression for the kinetic energy of a body.
- Q.22 Define pH and Electro refining.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Show that mechanical Energy for a freely falling body remain Constant.
- Q.24 Explain different Scales of temperature and also find the relation between them?
- Q.25 Explain Faraday's second law of electrolysis.