

- Q.31 Name different sources from where we get Fats and oils?
- Q.32 Write different types of Detergents.
- Q.33 Give any four Applications of Le-chateleur Principle
- Q.34 Describe in detail theory of catalyst?
- Q.35 Explain Electrical properties of sol?

SECTION-D

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

- Q.36 Write chemical Formula of
- 1) Alcohols
 - 2) Glycerine and write its any five properties and uses
- Q.37 Define Enzyme Catalyst. Give its mechanism and write its properties.
- Q.38 Describe Cleansing action of Soaps and its chemical composition.

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Roll No.

3rd Sem / Textile Processing , Text Chem. Subject:- Physical and Organic Chemistry / Basic Chemistry

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 _____ solutions are intermediate between true solutions and suspension
- a) basic
 - b) acidic
 - c) colloidal
 - d) none of them
- Q.2 The continuous rapid zig-zag movement executed by a colloidal particle in the dispersion medium is called
- a) continuous movement
 - b) moon walk
 - c) zigzag walk
 - d) Brownian movement
- Q.3 Soaps are suitable not in _____ Water
- a) warm
 - b) ice
 - c) hard
 - d) none of them
- Q.4 Equilibrium can be attained in an _____ vessel.
- a) air
 - b) water
 - c) closed
 - d) oil
- Q.5 Sugar in water is _____ solution.

- a) basic b) True
c) acidic d) none of them
- Q.6 _____ are non-bio degradable
a) alkalis b) Detergents
c) acids d) bases
- Q.7 A reaction which cannot go in forward and backward direction simultaneously is called a
a) reaction b) dyeing
c) printing d) Irreversible reaction
- Q.8 A _____ does not change its mass and chemical composition at the end of reaction
a) electricity b) catalyst
c) bulb d) water
- Q.9 A _____ solution is one which maintains the pH of the solution.
a) buffer solution b) colloidal
c) acidic solution d) none of them
- Q.10 Reaction involve substitution of H-atom of alkanes by chlorine is called
a) Bromination b) chlorination
c) hydrogenation d) printing

SECTION-B

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

- Q.11 The process of scattering of light by the sol particles is called _____. (light effect/ Tyndall effect)
- Q.12 In Water in oil the Large medium is _____. (water/ Oil)

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- Q.13 Process of addition of hydrogen in unsaturated compound is called _____. (Rising/ Hydrogenation)
- Q.14 Chemicals on the right side of reaction are called _____. (Acidic/ products)
- Q.15 In Exothermic reactions Heat releases on _____ side. (product/Reactant)
- Q.16 _____ is Unsaturated Hydrocarbon. (Alkane / Alkyne)
- Q.17 Draw chemical structure of naphthalene
- Q.18 Structure of Ethene is _____.
- Q.19 Chemical Formula for Hydrochloric acid is _____. (H₂SO₄/HCl)
- Q.20 Lyophilic sols are also called Solvent _____. (loving/hating)

SECTION-C

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

- Q.21 What is Tyndall effect in colloidal system?
- Q.22 Differentiate between Soaps and detergents ?
- Q.23 What is Solute and Solvent in solutions.
- Q.24 Define Emulsions and its types.
- Q.25 Give manufacturing reaction of soap.
- Q.26 Define catalysts and give its types.
- Q.27 Explain hardy-Schulz Law in coagulation of colloid?
- Q.28 Explain Lewis Concept of acid & bases with examples.
- Q.29 What are Alkanes explain with diagram.
- Q.30 Write Halogenation Reaction in alkanes.

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