

- Q.27 Discuss theory of catalyst?
- Q.28 Give any four Application of Le-chatelier Principle.
- Q.29 What is Hardy - Shulz Law?
- Q.30 Name two types of colloidal solution?
- Q.31 Write chemical Formula of Urea and write its application?
- Q.32 Write short note on Brownian Motion in case of Sols
- Q.33 Draw chemical structure of benzene?
- Q.34 Give four Applications of colloids?
- Q.35 Draw chemical structure of phenol?

SECTION-D

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

- Q.36 Give General formula of
- a) Alkanes b) alcohols
- Give their uses ? (5 each)
- Q.37 Define soap. Write chemical composition of soap. Discuss the cleansing action of soap?
- Q.38 Discuss the mechanism of
- a) Acidic buffer b) Basic Buffer

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3rd Sem / Text. proc., 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 _____ paper is used to measure acidity or alkalinity of a solution
- a) Sand b) pH
- c) Vat d) Solid
- Q.2 Following are the sources of fats?
- a) Animal b) Plants
- c) Mineral d) All of the above
- Q.3 Two immiscible liquids are mixed to form?
- a) Emulsion b) Gel
- c) Sol d) Jelly
- Q.4 Following is the example of acid?
- a) Caustic b) Soda ash
- c) Ammonia d) Acetic

- Q.5 Aromatic compounds have _____ smell?
- a) Sweet b) Pungent
c) Harsh d) Bad
- Q.6 Colloidal particles show _____ motion?
- a) Brownian b) Fast
c) Slow d) Intermittent
- Q.7 Le Chatlier Principle is related to
- a) Chemical equilibrium
b) catalysis
c) Chemical kinetics
d) none of them
- Q.8 General Formula for alkanes is _____
- a) C_nH_{2n+1} b) C_nH_{2n}
c) C_nH_{2n+2} d) none of these
- Q.9 Chemical formula for acetic acid is.
- a) H_2SO_4 b) CH_3COOH
c) HCl d) None of these
- Q.10 Rate of Chemical reactions increases with _____ of temperature?
- a) Increase b) decrease
c) No change d) None of these

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SECTION-B

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

- Q.11 Chemical Formula for sulphuric Acid is?
- Q.12 pH above 7 are _____ in nature
- Q.13 Catalyst _____ the rate of reaction?
- Q.14 General Formula for alkenes is?
- Q.15 Alkali Release _____ ion in water?
- Q.16 Write two examples of strong base?
- Q.17 What are cationic Detergent?
- Q.18 State two characteristics of a chemical equilibrium?
- Q.19 Define Emulsion?
- Q.20 What are products in a reaction?

SECTION-C

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

- Q.21 Explain Optical properties of sol?
- Q.22 Give four Applications of colloids?
- Q.23 Write Lewis Concept of acid & bases with examples.
- Q.24 How Soaps are different from detergents? (any 4)
- Q.25 Write four properties of Enzyme Catalyst?
- Q.26 Classify cyclic Compounds?

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