

- Q.26 Discuss theory of catalyst ?
 Q.27 Classify cyclic compounds ?
 Q.28 Write four properties of Enzyme Catalyst ?
 Q.29 How soaps are different from detergents ? (any 4)
 Q.30 Write Lewis Concept of acid & bases with examples?
 Q.31 Give four applications of colloids ?
 Q.32 Explain optical properties of sol ?
 Q.33 Briefly explain about kinetics of a Reaction ?
 Q.34 Write chemical formula of 1) Urea 2) Phenol and give their uses ?
 Q.35 Write short note on Brownian motion in case of sols

SECTION-D

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

- Q.36 Discuss the mechanism of
 a) Acidic buffer b) Basic Buffer ?
 Q.37 Give General formula of 1) Alkanes and 2) alcohols . Give their uses ? (5 each)
 Q.38 What is catalysis ? Explain types and theory of catalysis .

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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 General formula for alkanes is.....
 a) C_nH_{2n+1} b) C_nH_{2n}
 c) C_nH_{2n+2} d) None of these
 Q.2 Rate of chemical reaction increase with ____ of temperature?
 a) Increase b) decrease
 c) No change d) None of these
 Q.3 Chemical formula for sulphuric acid is
 a) H_2SO_4 b) CH_3COOH
 c) HCl d) None of these
 Q.4 Dispersion have particle size between
 a) 1A to 10A b) 10A to 2000A
 c) More than 2000 A d) None of these
 Q.5 Coloidal solution have particle size between .

- a) 1A to 10A b) 10A to 2000A
c) More than 2000A d) None of these
- Q.6 In case of sols Tyndal effect is the example of
a) Mechanical Prop.
b) Optical prop
c) Electrical prop
d) None of these
- Q.7 Emulsion is made by combination of
a) Water and oil b) Water and sand
c) oil and sand d) None of these
- Q.8 Colloids are useful in
a) Foods b) Medicines
c) Paints d) All of them
- Q.9 Organic compounds contain
a) Carbon b) Hydrogen
c) Both (a) & (b) d) None of these
- Q.10 Le chatlier principle is related to
a) Chemical equilibrium
b) catalysis
c) Chemical Kinetcs
d) None of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define Auto catalyst ?
Q.12 What is protective colloid ?
Q.13 What are cationic Detergent ?
Q.14 State two characteristics of a chemical equilibrium ?
Q.15 Define Emulsion ?
Q.16 What are products in a reaction ?
Q.17 What are promoters ?
Q.18 What is effect of temperature on chemical equilibrium in a reaction ?
Q.19 Name two types of emulsions ?
Q.20 What are Exothermic reactions ?

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Name two types of colloidal solutions ?
Q.22 Draw chemical structure of benzene ?
Q.23 What is brownian Movement
Q.24 What is Hardy - Shulz Law ?
Q.25 Give any four application of Le-chateleir Principle ?