

- Q.29 What are Limitation of Detergent?
 Q.30 Write theory of dyeing of dye on textile material.
 Q.31 Name different types of Detergents.
 Q.32 Write the Factors Affecting rate of reaction?
 Q.33 Differentiate between Soap & Detergent.
 Q.34 Explain Concept of Reversible Reactions.
 Q.35 List characteristics of chemical Equilibrium.

SECTION-D

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

- Q.36 Define Kinetics of reaction. Derive Kinetic equation of 1st order reaction.
 Q.37 Discuss the mechanism of
 a) Acidic buffer
 b) Basic Buffer
 Q.38 Write chemical Formula of
 a) Alkane
 b) Aldehyde and write it's any five properties and uses?

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Roll No.

Textile Processing Subject:- Physical and Organic Chemistry

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Detergents are suitable in _____ water
 a) warm b) ice
 c) hard d) none of them
 Q.2 Substitution of -NO₂ from H in alkene is called
 a) Sulphonation b) nitration
 c) hydrogenation d) none of them
 Q.3 _____ are known as Unsaturated Hydrocarbons
 a) Alkene b) carbon
 c) hydrogen d) none of them
 Q.4 Catalysis brought about by enzyme is called _____
 a) acid catalysis b) base catalysis
 c) enzyme catalysis d) none of them
 Q.5 The process of scattering of light by the sol particles is called _____
 a) light effect b) sound effect

- c) Tyndall effect d) none of them
- Q.6 Reaction involve substitution of H-atom of alkanes by Bromine is called
- a) Bromination b) hydrogenation
- c) chlorination d) none of them
- Q.7 Soaps and detergents are used as _____ agents.
- a) Washing b) Water
- c) Cleaning d) oil
- Q.8 General formula of Alkane is
- a) H_{2n+2} b) C_nH_{2n+2}
- c) C_nH_{+2} d) C_n
- Q.9 Catalyst _____ the reaction rate
- a) increase b) decrease
- c) No change d) none of them
- Q.10 A _____ solution is one which maintains the pH of the solution
- a) buffer solution b) colloidal
- c) acidic solution d) none of them

SECTION-B

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

- Q.11 Lyophilic sols are also called Solvent _____ (loving/hating)
- Q.12 Name any two water Insoluble dyes.

- Q.13 Chemical equilibrium Can be seen only for _____ system. (Open/closes)
- Q.14 Chemical Formula for Sulphuric Acid is _____. (H_2SO_4/CH_3COOH)
- Q.15 Name two types of emulsions.
- Q.16 Draw chemical structure of benzene.
- Q.17 General Formula for alkanes are _____. (C_nH_{2n+1}/C_nH_{2n})
- Q.18 What are Exothermic reactions?
- Q.19 The Rate of Chemical reaction increases with _____ of temperature. increases/descreases)
- Q.20 Name two types of colloidal solution.

SECTION-C

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

- Q.21 How we can measure pH of solutions.
- Q.22 State the Law of Mass Action of colloid.
- Q.23 Discuss Hydrogenation reaction in fats and oils.
- Q.24 Explain Enzyme Catalyst & its Mechanism?
- Q.25 What are different sources from where we get Fats and oils.
- Q.26 What are characteristics of catalytic reaction.
- Q.27 What is Gold Number of Colloid?
- Q.28 What are Strong acids and strong base?