

- Q.24 What are characteristics of catalytic reaction?
- Q.25 What do you mean by pH of solutions?
- Q.26 Write theory of dyeing of dye on textile material?
- Q.27 What are Enzyme Catalyst & Its mechanism?
- Q.28 Explain Mechanical properties of sol?
- Q.29 Explain theory of catalysis?
- Q.30 Give Factors Affecting rate of reaction?
- Q.31 Differentiate between soap & Detergent?
- Q.32 Write any four Application of Le -chateleir Principle?
- Q.33 Derive Kinetic equation of 1st order reaction?
- Q.34 Write Chemical Formula of Urea, Phenol and give their uses?
- Q.35 Differentiate between True Solution and dispersion.

SECTION-D

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

- Q.36 Explain a) Tyndall Effect b) Electrical property of sol?
- Q.37 Explain Cleansing action of Soaps and its chemical composition?
- Q.38 Explain applications of Le Chatliers principal in industry.

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Roll No.

3rd Sem.

Branch : Processing, Text Chem.

Sub: Physical and Organic Chemistry/ Basic chenistsy

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 Which out of these is strong acid.
- a) Sulphuric acid b) Acitic acid
- c) Formic acid d) None of these
- Q.2 Water soluble dyes are?
- a) Direct b) Vat
- c) Disperse d) None of these
- Q.3 Acidic solutions have pH.
- a) Equal to 7 b) Less than
- c) More than 7 d) None of these
- Q.4 True solution have particle size between.
- a) 1A to 10A b) 10A to 2000A
- c) more than 2000 A d) None of these

- Q.5 In reversible reaction, reaction moves in
 a) Forward direction b) Backward direction
 c) Both directions d) None of these
- Q.6 In case of sols Brownian motion is the example of
 a) Mechanical Prop. b) Optical Prop.
 c) Electrical prop. d) None of them
- Q.7 Catalyst _____ the reaction rate
 a) Increase b) Decrease
 c) No change d) None of them
- Q.8 Factors affecting rate of reaction are
 a) Temp b) Pressure
 c) Conc. of reactants d) All of them
- Q.9 Aliphatic compounds contain
 a) Carbon b) Hydrogen
 c) Both C and H d) None of them
- Q.10 Substitution reactions involve
 a) Nitration b) Sulphonation
 c) Halogenation d) All of them

SECTION-B

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

- Q.11 Define Catalyst?
- Q.12 What are Endothermic reactions?
- Q.13 List any two types of colloidal solution?
- Q.14 Define concentration of solution?
- Q.15 Define Coagulation?
- Q.16 Define Anionic Detergent?
- Q.17 What is the function of Promoters?
- Q.18 What are Reactants in a reaction?
- Q.19 What are Enzymes?
- Q.20 Name two types of Catalysts?

SECTION-C

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

- Q.21 Briefly explain about Chemical equilibrium in a chemical reaction?
- Q.22 What is the difference between Dye and Pigments.
- Q.23 State the Law of Mass Action?