

- 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 -chateleur 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.

No. of Printed Pages : 4 182631/122631/032631
Roll No.

3rd Sem.
Branch : Processing, Text Chem.
Sub: Physical and Organic Chemistry/ Basic chemistsy

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 2000A
 - 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?