

- 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

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

**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

## SECTION-B

**Note:** Objective type questions. All questions are compulsory.  $(10 \times 1 = 10)$

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.  $(12 \times 5 = 60)$

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?