

- Q.5 H_2SO_4 is a _____
a) Acid b) Base
c) Oxidizing agent d) None of these

- Q.6 Anion is a _____ charged ion?
a) Positive b) Negative
c) Neutral d) None of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 pH range of acids is between _____.
Q.8 pH scale is from _____ to _____.
Q.9 Define chemical equilibrium?
Q.10 Define aromatic compounds.
Q.11 Alkali Release __ ion in water. (cation / anion)
Q.12 In exothermic reactions heat is _____. (absorbed / released)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Discuss briefly about enzyme catalysis?
Q.14 Write electrical properties of sol?

- Q.15 Give difference between soap & detergent?
Q.16 What are properties of catalytic reactions?
Q.17 Write application of Le-chateleir Principle?
Q.18 Write applications of colloids?
Q.19 Write about gold number in colloids?
Q.20 Write about buffers in chemistry?
Q.21 Discuss types of colloidal solutions.
Q.22 Write a short note on chemical equilibrium?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write the properties of soaps and detergents and mechanism of cleaning action of soap?
Q.24 Write general formula of 1) Alkane 2) Alkenes and their uses?
Q.25 Discuss Optical and Mechanical properties of sols.