



Shree H.N. Shukla Group of Colleges
B.Sc. (Sem-VI) (CBCS) (Unit Test II)

C-601: Inorganic & Industrial
Chemistry

Time: 1.5 hours

Date: 01/06/2021

Total Marks: 30

Instructions

- 1. All Questions are compulsory.**
- 2. Figure to the right indicate the full marks of Questions.**

Q.1 (A) Answer the Following [01]

- For $P > 1$ and K is +ve what will be the magnetic nature of substance?
- Which type of substance has dipole aligned with the applied magnetic field?
- What is the effect of temperature change on diamagnetic compound?
- Which type of oil is used as Enamels?
- Which impurity poisons the catalyst in hydrogenation of oil?

(B) Answer the Following (any one). [02]

- Define following terms
 - Intensity of magnetisation
 - Magnetic susceptibility.
- Define following terms
 - Acid value
 - Iodine value

(C) Answer the Following (any one). [03]

- Discuss effect of temperature on magnetic body.
- Write short note on wet process for hydrogenation of oil.

(D) Answer the Following (any one). [05]

- Give a brief note on solvent extraction method / expression method for manufacturing of cotton seed oil with labelled diagram.
- Discuss the method to measure magnetic susceptibility.

OR

Explain Guoy's balance method

Q.2 (A) Answer the Following **[01]**

- (I) Which binding material used for manufacturing of soaps.
- (II) Glycerine is used to manufacturing ofsops.
- (III) Define term spent lye and give its composition.
- (IV) Principal groups of synthetic detergents are?
- (V) Which are the constitues to prepare Zwitterionic detergents.

(B) Answer the Following (any one). **[02]**

- (I) Describe Alfol process for preparation of anionic Detergents.
- (II) What do you mean by Biodegradability of cations.
- (III) Give classification of surf active agents.

(C) Answer the Following (any one). **[03]**

- (I) Write short note on transparent soap.
- (II) Explain Welsh process for fatty alcohol.

(D) Answer the Following (any one). **[05]**

- (I) Explain the continuous process for manufacturing of soap with flow diagram.
- (II) Briefly describe various types of soaps.