

B.Sc. Semester - 4 (NEP-2020) Examination**March/April-2025****CHE: Chemistry-203 (Minor-3)****Time: 2:00 Hours****Marks: 50****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que-1 Answer the following questions. (Any two) (10)
1. Explain Iodine value in detail.
 2. Discuss dry process for hydrogenation of oil.
 3. Explain classification of oil and fats.
- Que-2 Answer the following questions. (Any two) (10)
1. Explain oxo process for manufacturing of anionic detergents.
 2. Discuss different types of soaps.
 3. Explain Continues process for manufacturing of soap.
- Que-3 Answer the following questions. (Any two) (10)
1. What is water pollution? Give the sources of water pollution.
 2. Discuss CFC and Ozon depletion.
 3. Explain major sources of air pollution.
- Que-4 Answer the following questions. (Any two) (10)
1. Write the Detectors used in gas chromatography and describe any two.
 2. Explain Methods of preparation of chromplate.
 3. Discuss Applications of ion exchange chromatography.
- Que-5 Answer the following questions. (Any two) (10)
1. Explain preparation of Nickel catalyst for hydrogenation of oil.
 2. Explain classification of surface active agents.
 3. Write a note on Green House Effect.
 4. Define Rf value. Explain Factors affecting Rf Value.
