

B.Sc. Semester - 4 (NEP-2020) Examination**March/April-2026****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 any two out of three in details. (10)
1. Explain the Properties of Oils and Fats.
 2. Write a short note on preparation of Nickle catalyst.
 3. Explain the Wet process of hydrogenation of Oils and write it's Advantages.
- Que.2 Answer any two out of three in details. (10)
1. Explain with details: Raw materials for manufacture of soap.
 2. Explain the classification of soaps with details.
 3. Discuss Biodegradability of Surfactants.
- Que.3 Answer any two out of three in details. (10)
1. Describe the Greenhouse effect and global warming.
 2. Explain the Photochemical smog causes, effect and prevention.
 3. What is Ozone hole? Write a reaction of formation and depletion of ozone.
- Que.4 Answer any two out of three in details. (10)
1. Write a short note on Circular paper chromatography.
 2. Discuss TLC in detail.
 3. Give short note on Gas chromatography.
- Que.5 Answer any two out of three in details. (10)
1. Explain the Iodine value of Oils.
 2. Write a short note on Anionic Detergents.
 3. What is acid rain? Explain its causes, effect, and prevention.
 4. Explain types of resin in ion-exchange chromatography.
