

B.Sc. (FS) Semester - 5 (NEP-2020) Examination**Oct/Nov - 2025****CHE: Minor Chemistry-301 (Minor-4)****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 question. (Any two) (10)
- (1) Differentiate Bio-degradable and Non-bio degradable polymer.
 - (2) Explain free radical polymerization reaction with mechanism.
 - (3) Give synthesis and use of i) Nylon-6,6 ii) Buna-S
- Que.2 Answer the following question. (Any two) (10)
- (1) Write any five chemical reaction of Naphthalene.
 - (2) Discuss classification of Polynuclear Aromatic Hydrocarbon.
 - (3) Give synthesis and use of Saccharin.
- Que.3 Answer the following question. (Any two) (10)
- (1) Differentiate COD and BOD.
 - (2) Define Water pollution. Discuss sources of water pollution.
 - (3) Explain manufacturing of Ethylene glycol from ethylene chlorohydrin with diagram.
- Que.4 Answer the following question. (Any two) (10)
- (1) Explain Neutralization titration curve between strong acid and strong base.
 - (2) What is primary standard? Explain in detail.
 - (3) Discuss Mohr's method for precipitation titration.
- Que.5 Answer the following question. (Any two) (10)
- (1) Explain classification of polymer based on Source and Structure.
 - (2) Discuss classification of water pollution.
 - (3) Give synthesis and use of Dulcin.
 - (4) Discuss types of Complexometric [EDTA] titration.
