

B.Sc. Semester - 5 (Remedial) (NEP-2020) Examination

March/April-2026

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 any two questions out of three questions. (10)
- (1) Explain: Synthesis, properties and uses of Nylon-6.
 - (2) Explain in detail Free radical polymerisation reaction with mechanism.
 - (3) Discuss: Classification of polymers based on Modes of polymerisation.
- Que.2 Answer any two questions out of three questions. (10)
- (1) Discuss: Addition reactions of Anthracene (Any four).
 - (2) Give any two syntheses and uses of Dulcin.
 - (3) Explain in detail any three preparation methods of Naphthalene.
- Que.3 Answer any two questions out of three questions. (10)
- (1) Explain the method of preparation of Synthetic gas from Methane.
 - (2) Explain How COD is determined practically?
 - (3) (i) Define: (a) D. O. & (b) Water Pollution
(ii) Give only reactions of manufacturing of ethanol from ethylene by H_2SO_4 Process.
- Que.4 Answer any two questions out of three questions. (10)
- (1) Explain: Neutralisation titration curve of strong acid and strong base by Volumetric analysis
 - (2) Write a note on Mohr's method for Precipitation titration.
 - (3) Explain: Masking & Demasking agents in Volumetric analysis.
- Que.5 Answer any two questions out of four questions. (10)
- (1) Explain: Synthesis, properties and uses of Terylene.
 - (2) Explain in detail any four preparation methods of Biphenyl.
 - (3) Explain in detail preparation method of Glycerol from Propylene via acrolein.
 - (4) Write a note on Iodometry titration with proper example.
