

B.Sc. Semester - 3 (NEP-2020) Examination

OCT/NOV-2024

CHE: Chemistry-203 (Multidisciplinary Course)

Time: 2:00 Hours

Marks: 50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que-1 Answer any two out of three questions given. (10)

- 1) Explain the role of different nutrients in plant growth.
- 2) Write a note on Prilling method of manufacturing of Ammonium nitrate fertilizer.
- 3) Explain the manufacturing process of Triple Super Phosphate fertilizer.

Que-2 Answer any two out of three questions given. (10)

- 1) Write a note on types of Cement. (Any Five)
- 2) Explain the manufacturing process of Portland Cement.
- 3) Discuss the Setting and Hardening process of Portland Cement.

Que-3 Answer any two out of three questions given. (10)

- 1) Write a note on Green House Effect.
- 2) Write a note on Photo-Chemical Smog in detail.
- 3) Explain the effect of CFC on Ozone depletion.

Que-4 Answer any two out of three questions given. (10)

- 1) Explain Charcoal cavity test in Inorganic Qualitative Analysis.
- 2) Explain: Co-precipitation and Post precipitation in Gravimetric analysis.
- 3) Explain: Filtration, Washing and Drying of precipitate in Gravimetric analysis.

Que-5 Answer any two out of four questions given. (10)

- 1) Write a note on Sindri process of manufacturing of Urea.
- 2) Write a note on Mortar and Concrete.
- 3) Explain Acid rain with necessary equations.
- 4) Write a note on Flame test in Inorganic Qualitative Analysis.
