BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

First Semester (2023-2024)

Mid Sem Examination (Regular) (Closed Book)

CHE F214 (Engineering Chemistry)

Max Time: 90 mins

Date: 13/10/2023 Max Marks: 90

Instructions: All questions should be answered with clarity and precision. Marks allotted per question are indicated in brackets.

- 1. In the treatment of water for domestic purpose, discuss the impact if pretreatment and flocculation steps are not present. [10]
- 2. Differentiate between scale and sludge formation regarding boiler troubles. [10]
- **3.** Describe the role played by tertiary treatment regarding sewage treatment. [15]
- **4.** Differentiate between bulk polymerization and solution polymerization in terms of process and limitations involved. [15]
- 5. Distinguish between solid, liquid, gaseous fuels in terms of chief limitations involved. [15]
- **6.** Discuss three chief qualities of a "good" fuel. [15]
- **7.** Discuss how membrane softening is better compared to lime softening with clear justification.

[10]