

School of Basic Sciences

Department of Basic Sciences

Mid Term Examination

Exam Date: 29 Sep 2023

Time : 90 Minutes

Marks : 50

Sem V - C1UB503T - Polymer Chemistry

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Summarize the differences between natural, synthetic, and semi-synthetic polymers. K2 (2)
- 2) Why do linear, branched, and cross-linked copolymers exhibit distinct properties? K1 (3)
- 3) Illustrate the factors that influence the accuracy of Tg determination methods. K2 (4)
- 4) Explain the primary types of molecular forces that influence polymer behavior. K2 (6)
- 5) Utilize synthetic polymers compare to natural polymers in terms of properties and applications? K3 (6)
- 6) Apply the concept of weight average molecular weight (Mw). K3 (9)
- 7) Compare the different types of polymers with examples. K4 (8)
- 8) Predict the molecular weight and branching impact polymer properties. K4 (12)

OR

Predict the key criteria for designing synthetic polymers with examples. K4 (12)