

ANNAI VIOLET ARTS AND SCIENCE COLLEGE

DEPARTMENT OF CHEMISTRY

CONTINUOUS INTERNAL ASSESSMENT – I (ODD SEM.)

SUBJECT : POLYMER CHEMISTRY

Class : III B.Sc, CHEMISTRY

Date : 7.09.22

Max.Marks : 50

Sub. Code:

PART A ($5 \times 2 = 10$ Marks)

Answer any FIVE question

1. **Define Polymer.**
2. **Write a short note on “Hetero Chain Polymer”.**
3. **Give a comment on Plastics.**
4. **State Glas Transition Temperature.**
5. **Make a note on Polydispersity index**
6. **What is membrane osmometry.**
7. **List the uses of PVC.**

PART B – ($2 \times 5 = 10$ Marks)

Answer any TWO questions

8. Distinguish between Thermoplastics & Thermosetting Polymer.
9. Determine the (i) Number average molecular weight.
(ii) Weight average molecular weight.
10. Mention the Preparation, Properties & Uses of Polyethylene.

PART C – ($3 \times 10 = 30$ Marks)

Answer ALL questions

11. Discuss the mechanism of Free Radical Polymerisation.
12. Give a detailed account on the Factors Affecting Glass Transition Temperature(T_g).

Prepared by

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