

**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 × 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 Glass Transition Temperature.
5. Make a note on Polydispersity index
6. What is membrane osmometry.
7. List the uses of PVC.

**PART B – (2 × 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 × 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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Assisstant prof.Chemistry.**