Roll No.

Y - 3212

M.Sc. (Second Semester) EXAMINATION, May/June 2021

INDUSTRIAL CHEMISTRY

Paper-204(A)

(Polymer Science-I) Time: Three Hours Maximum Marks: 85 Minimum Pass Marks: 29 **Note:** Attempt *all* questions. Unit-I 1. 17 Explain in detail condensation polymerization. **Unit-II** 2. Describe cross linking reactions of polymer with examples. 17 **Unit-III** 3. Describe glass transition temperature. Write down the mechanism and factors influencing its temperature. 17 **Unit-IV** Write notes on any two of the following: 17 4. (a) TPE (b) Thermal and photo degradation (c) Rubber products with examples. Unit-V 5. Write down the synthesis and uses of any three of the following: 17 (a) PVC (b) Polyethylene (c) Polyamides (d) Polystyrene (e) Cellulose plastics.

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