

B.Sc. 5th Semester Examination-2022

Subject- POLYMER CHEMISTRY (DSE-I)

Paper Code: CHE-HE/RE-5056

Total Marks 30

Time: 75 minutes

1. ANSWER ALL THE QUESTIONS

- a). Write the monomer unit of Buna S, Terylene, Teflon. [3]
- b). Define polymerization with example. [2]
- c). Classify the polymer on the basis of tacticity. [3]
- d). What is inorganic polymer. Give one examples. [2]

2. ANSWER ALL THE QUESTIONS

- a). What are the major differences between addition and condensation polymerization? [3]
- b). Distinguish between inhibitors and retarders. Give examples for both. [2]
- c). Discuss the mechanism of polymerization of styrene monomer using benzoyl peroxide as the initiator [5]

3. ANSWER ANY TWO 5X2=10

- a) How polystyrene is prepared? Discuss its properties and application
- b) How nylon 6,6 is prepared? Discuss the properties and applications of polyamides.
- c) How silicon polymers are prepared? Discuss the properties and applications of silicon polymers.
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