

**Government General Degree College, Dantan-II**  
**5<sup>th</sup> Semester B. Sc (General) Internal Examination-2021**  
**Subject: Chemistry** **Paper: DSE-1**  
**F.M: 20** **Time: 1h**

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**Group: A**

**Answer the following questions (*any five*)**

**5×2**

1. What is the significance of 6,6 in nylon-6,6.
2. What is functionality?
3. Mention the factors affecting crystalline melting point.
4. What is Polydispersity index ?
5. What is glass transition temperature?
6. Distinguish between addition polymerization and condensation polymerization
7. Derive carothers equation.
8. A sample of polystyrene has an average molecular weight of 1,04,000. What is the degree of polymerization of this sample of polystyrene?
9. Define condensation polymer and homopolymer.
10. Distinguish between Thermoplastics and Thermosetting plastics.

**Group: B**

**Answer the following questions (*any two*)**

**2×5**

1. Write the method of preparation and properties of Bakelite.
2. Write the method of preparation and properties and application of poly(vinyl chloride).
3. Write the method of preparation and properties of silicone polymers.
4. Write short note on conducting polymers.