

**Gurudas College**  
**Internal Assessment, 2021**  
**CHEMISTRY (Honours)**  
**Semester-VI**  
**Paper-DSE-B-3**

**Time- 30 mins**

**Full Marks-10**

Answer any five questions

1. (a) Draw the structure of Poly (1-chloro) ethylene.  
(b) Write two important applications of PVC. [1+1]
2. What is meant by degree of polymerization? [2]
3. Calculate the molecular weight of polyvinyl alcohol whose DP is 600.  
(DP= degree of polymerization) [2]
4. Explain the term – ‘thermosetting polymers’. [2]
5. What is Polydispersity index? [2]
6. Write the fundamental relationship between intrinsic viscosity ( $\eta$ ) and molecular weight ( $\overline{M}_v$ ) and explain the terms. [2]
7. What is free volume and how it affects  $T_g$ ? [2]
8. Differentiate LDPE and HDPE. [2]