Khatra Adibasi Mahavidyalaya

B.Sc. Prog. Examination 2020, Semester-VI

Internal Assessment

Subject - Chemistry, Paper Code - DSE1B(polymer Chemistry)

F.M-10 Time-30min

1. Answer Any two of the following:- 5×2=10

a) i) Show that $\overline{M}_w \geq \overline{M}_n$.

ii) Define Condensation polymerisation. Why it is called Step growth polymerisation. (2+3)

b) i) Define the weight average and number average molecular weights $\overline{M}_w$ & $\overline{M}_n$ of a polydisperse solution

ii) When do the number and mass average molecular weight equal? (4+1)

c) Show that number average molecular weight is obtained from osmometric studies of a polymer solution. (5)

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B. Sc. Program Examination 2020, Semester- VI

Internal Assessment

Subject- Chemistry, Paper Code- SEC T4 (Analytical Clinical Biochemistry)

F.M. – 10 **Time – 30min**

1. **Answer *all five* of the following:** **5 × 2 = 10**
   a. What is the active site of an enzyme?
   b. How does an enzyme inhibitor work?
   c. What is the process of replication in DNA?
   d. Give two examples of inhibitors.
   e. What is the meaning of coagulation of blood?
