

Term Test -1 (3rd year 1st semester)

Course Name: Organic Reaction Mechanism (BMB 324)

Marks: 20, Time: 40 minutes

Question	Marks
1. a. Define following terms: I) Meso Compound II) Stereospecific reaction III) Racemic Mixture	1.5x3
b. Draw & specify as R or S the enantiomers of I) 3-Chloro-1-pentene II) $\text{CH}_3\text{CH}(\text{NH}_2)\text{COOH}$	3
c. Why equatorial bond is more stable than axial bond? Explain.	2.5
2. a. Draw possible stereochemical formulas of 2,3-dichloropentane . Label pairs of enantiomers, & meso compound. Specify the R/S configuration of enantiomers.	4
b. Show that synthesis of a chiral compound from achiral molecules always yield the racemic modification.	3
c. Discuss the biochemical asymmetric transformation process for the resolution of racemic modification.	3