1 8 FEB 2021 M.Sc. SEM-1 Examination February 2021 Organic Chemistry Paper no. 102 Paper code: 22864

Time: 1:30 Hours Total Marks: 42

(1)	All	questions	carry	equal	marks

(2) Attempt any three questions out of four

Q-1		Discuss the Aromatic character of [10] annulenes, [12] annulenes, [14] annulenes, [16] annulenes, [18] annulenes.	1		
Q-1	(A)	it.			
	(B)	B) Explain Nirrish type-1 reaction with suitable example.			
Q-2		What do you understand by racemic mixtures? Discuss the methods of separation of enantiomers.			
3163L 3165		OR			
Q-2	(A)	Draw the axial and equatorial bonds in cyclohexane. Explain the difference conformations in mono substituted cyclohexane and discuss the stability.			
	(B)	Discuss the concept of Regio-selectivity in detail with suitable example?			
Q-3		Discuss structure, generation, reactions and stability of carbocations in detail. OR	14		
Q-3	(A)				
	(B)	Explain carbonium ion, carbenium ion and cabocation. Discuss different structural features, which influence the stability of carbocations.	07		
Q-4		Draw the correlation diagram for the interconversion of 1,3-butadiene to cyclobutene.	14		
		OR			
Q-4	(A)	Draw the correlation diagram of (2s+2s) cycloaddition reaction.			
	(B)	Write a note on Claisen rearrangement with respect to [3,3] and [5,5] shift.	07		