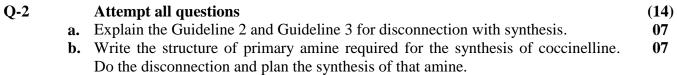
			UNIVERSITY									
		Summer Examination-2019										
	•	Name: Disconnection Approach Code: 5SC03DAC1 er: 3 Date: 11/03/2019	Branch: M.Sc. (Chemistry) Time: 02:30 To 05:30 Marks: 70)								
<u>In</u>	(2) (3)											
		SEC	CTION – I									
Q-1		Attempt the following questions		(07)								
	a.	Define: Target Molecule (TM)		01								
	b.	Define: Functional group Interconv	ersion (FGI)	01								
	c.	Define: Retrosynthesis Analysis		01								
	d. e.	Define synthon and explain it with a Write only disconnection analysis for		01 02								
	f.	What are the synthons obtained by	disconnection of 1,3-dicarbonyl compounds?	01								
Q-2		Attempt all questions		(14)								
~ -	a.		g two <i>o,p</i> -directing group; meta (<i>m</i>) to each	07								
		other on the aromatic ring with suits	<u> </u>									
	b.	Do the disconnection analysis and p	plan the synthesis of following TM.	07								







Q-3		Attempt all questions	(14)
	a.	Do the disconnection analysis and plan the synthesis.	07
	b.	Do the disconnection analysis and plan the synthesis.	07
Q-3	a.	OR Attempt all questions Do the disconnection analysis and plan the synthesis.	(14) 07
	b.	Do the disconnection analysis and plan the synthesis.	07
		SECTION – II	
Q-4	a. b.	Attempt the following questions How can 1,2-diol be synthesized from alkene? Do the disconnection analysis and plan the synthesis.	(07) 01 02
	c. d. e. f.	Define: Protecting group Draw the reaction scheme of Diels-Alder reaction. Which reagents can react with acetal protected ketone group? Write the basic characteristic of good protecting group.	01 01 01 01
Q-5	a.	Attempt all questions Do the disconnection and plan the synthesis of anticonvulsant Phensuximide.	(14) 06



	b.	Do the disconnection analysis and plan the synthesis.	08
Q-5	a.	OR Attempt all questions The diester (TM) required for the synthesis of the antibiotic pentalenolactone. Do the disconnection analysis and plan the synthesis of this diester.	(14) 06
	b.	Do the disconnection analysis and plan the synthesis.	08
Q-6	a. b.	Attempt all questions Explain the use of protecting groups for synthesis of dipeptide ester Asp-Phe-OMe chain. Do the disconnection analysis and plan the synthesis.	(14) 07 07
Q-6		OR Attempt all questions Discuss the streospecificity, stereoselectivity and regioselectivity for Diels-Alder reactions with example. Do the disconnection analysis and plan the synthesis.	(14) 07 07

