ORGANIC CHEMISTRY - II

Paper-II
(Common for B.Sc. Bio-Tech. Semester-II)

Time: Three Hours]
Note: Attempt five questions in all. Select two questions each from Section A and B while Question

	No. I	IX of Section-C is compulsory.		
		SECTION-A	•	_
I.	(a)	Explain Dehydrohalogenation of alkyl halides.		222222
77	(a) (b)	Define Saytzeffs rule with example.		2
II.	(a)	Describe the mechanism of dehydration of alcohols.		2
	( <del>i</del> j)	Explain briefly 1,2-hydride shift and 1,2-alkyl shift.		2
III.		Explain the Markownikoffs rule with example.		2
	(a) (b)	Give the mechanism of Peroxide effect		2
IV.		Why conjugated dienes are more stable than non- conjugated dienes?		۶
	(a) (b)	Describe Diel's-Alder reaction with example.		1
	(0)	SECTION - R		^
V.	(a)	Why alkynes are less reactive towards electrophilic addition reactions than a	kenes?	2
••	( <del>b</del> )	Prove that alkynes are acidic in nature.		ž
VI.	(a)	Explain Non-aromatic and Anti-aromatic compounds with example.		2
	(Ē)	Describe the term SNI with mechanism and stereo-chemistry.	,	2
VII.		Explain Elimination addition reaction mechanism with example.		2
	(a) (b)	Describe the Sandmeyer reaction and Fittig reaction.		ź.
VIII.	(a)	Give the structure of Benzyne with diagram.		5
	(b)	Describe the mechanism of Sulphonation of Benzene.		_
	(-)	SECTION-C.		
		(Compulsory Question)		
IX.	Answer all the following:			
	(a)	Explain Hoffmann Elimination reaction:		
	(b) ·	Describe the ozonolysis of alkenes with application.		
	(c)	Write down the Huckel rule of aromaticity.		
	(d)	Describe Hoffmann ammonolysis reaction.	$(5 \times 2 = 10)$	)
	, .	NATURAL PLANTA SINGULATION TO SECTION WITH EXHIBITION		

14. CO