Total No. of Printed Pages: 3

SUBJECT CODE NO:- B-2002 FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. F.Y (Sem-I)

Examination November/December- 2022 Chemistry Paper-II (Organic Chemistry)

[Time: 1:30 Hours] [Max. Marks:50]

Please check whether you have got the right question paper.

N.B

- 1) Attempt all question
- 2) Use blue or black pen only
- Q.1 a) i) Describe hyper conjugation with example

05

ii) Explain the structure of carbocation and carbon free radicals with examples.

05

b) Assign E-Z nomenclature to the following organic compounds

10

OR

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	a) i) Explain steric effect with suitable example.	05
	ii) Explain types of reagent with example.	05
		10
	b) Assign R and S nomenclature to each of the following compounds	10
	CH3 FOOH	
	0 Br-+-H 3 H2N-1-H	
	El cha properties	
	COOH CHO	
	BY -OH UI-BY	6 Pri
	CHO H ST JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOHN	- 6 X
0.2	a) i) Give preparation of alkanes by decarboxylation of carboxylic acid	05
Q.2	ii) Explain addition reaction of HBr to alkene with mechanism	05
	ii) Explain addition feaction of FIBI to alkelie with mechanism	
	b) i) Explain Fridel Carft's acylation reaction with mechanism	05
	ii) Give any two methods of preparation of Chloroform	05 05
	ii) Give any two methods of preparation of emotorism	
	OR AND EST	
	a) Write short notes on (any four)	20
	a) Kolbe's reaction of formation of alkanes	
6	b) polymerization of alkenes	
	c) Aromaticity	
	d) Side Chain reaction of aryl halides	
	e) Saytzeff's rule	
	f) Reaction of carbanions	
Q.3	Choose and write the correct answer of following	10
	1. Which of the following forms hydrogen bonding	
	a) CH ₃ -O-CH ₃ b) H ₂ O c) CH ₃ -CH ₃ d) CH ₄	

2.	Which of the following is a electrophile?							
	a) CN	b)	$CH_3\overline{O}$	c) BF ₃	d) NH ₃			
				Bo, By				
3.	Homolytic fiss	Homolytic fission of c-c bond leads to the formation of.						
	a) carbinium i	ons b)	carbon ions	c) free radicals	d) none of these			
				Children Flor	Chr. Str.			
4.	What is the possible number of optical isomers for a compound containing 2 dissimilar							
	asymmetric carbon atoms?							
	a) 2 ⁿ	b)	n^2	c) n+1	d) n+2			
				ELT SOL	20 2kg 26kg			
5.	Which of the following compounds will show geometrical isomevism?							
	a) 1-pentene	b) 2-pent	ene c) 2-	methyl-2-pentene	d) 2-methyl-2-butene			
		Do. The						
6.	Which of the following alkenes will have the highest boiling point?							
	a) Neopentane	b) [Isopentane	c) butane	d) n-octane			
					Story St.			
7.	Which of the following compounds is most stable?							
	a) ethylene	b) propyle	ne c) 2,	3 -Dimethyl-1-butene	d) 2-butene			
		(O)	Sp BL	Elect By				
8.	Which of the following regents will react with propene?							
	a) hot alkaline	KMNO ₄	b) LiAlH ₄	c) cold dilute HNO	d) sodium metal			
7			Flor Dist	CHY TON				
9.	Aromatic hydr	rocarbons ar	e also called					
	a) trienes b) arenes c) Huckel's compounds d) Alkozey compounds							
10	. Carbon tetrach	nloride is us	ed as a fire extin	guisher under the nam	e			
	a) Iodo form	(b) p	hosgene	c) Feron-12	d) pyrene			