ORGANIC CHEMISTRY - II

an:	~	(Common for B.Sc. Bio Tech., Industrial Microbiology)	•
Time . Three Hours			
Note	: Atter	npt hio questions each from Section A and B. Section C is compulsory.	
1.	(2)	Section - A	
٠.	(a) (b)	Explain the aromatic nature of Pyridine and Pyrrole.	3
2.	(a)	Give the preparations of Furan.	4
۷.	(b)	How does Pyrrole undergo electrophilic substitution reactions? Explain.	3
3.	(a)	Give the substitution reactions of Pyridine.	4
٥.	(₽)	How will you synthesise Quinoline? Give reaction sequences. Give the chemical reaction of Indole.	3 4 3 4
	(b)	How will you alkylate Enamine? Give reactions.	
	(0)	Section - B	4
5.	(a)	How will you interconvert Glucose and Fructose?	` 3
•	(b)	How will you shorten the chain length of an aldose?	4
6. ,	(a)	Explain the structure of Ribose.	4
1	(b)	Write a note on Mutarotation.	3
7. 8.	Èxp	lain the structure of Proteins.	3 4 4 3 7
8.	Hov	wwill you prepare α-amino acids? Give their reactions.	7
		Section - C	
		(Compulsory Question)	
9.	. Do:	all parts:	
	(a)	What are Threoisomers? Give one example.	
*1	(b)	Explain Electrophoresis.	
	(c)	Why α -H in Diethyl malonate is acidic?	
	(d)	Write the cyclic structure of D(+) glucose.	
	(e)	Give the structure of Osazone.	
	(f)	Give one example of Urea formaldehyde resins.	(1×7=7)
	., (g)	What are Peptide bonds? Give one example.	(, , , , ,
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