[This	question paper contains 3 printed pages.]	
4724	Your Roll No	·····
	B.Sc. (G) / III	AS
	CHEMISTRY - Paper VIII	
	(Organic Chemistry)	
Time :	2 Hours Maximum Marks	: 25
((Write your Roll No. on the top immediately on receipt of this question paper.)	•
	Attempt any FOUR questions. Question No. 1 carry 7 marks.	
1. (a) How are Carbohydrates classified? Discuss suitable examples.	with (3)
(1	b) Glucose and Fructose give identical Ósaz	ones.
	Explain.	(1½)
(c) How will you convert Glucose into Fructos	e?
		(1½)
(d) Draw the structure of α -D(+)-Glucose.	(1)
2. (a) What are essential amino acids? Give the	name
	and structure of any TWO such acids.	(2)
((b) Using N-protecting agent, synthesize the dip	eptide
	(i) Ala – gly	(2)
	P	.T.O.

- (c) Explain:
 - (i) Zwitterion

- 3. (a) Why pyridine is more basic than pyrrole?

 Explain. (2)
 - (b) Complete the following reactions:

(a)
$$\bigvee_{\substack{N \\ H}} + CHCl_3 + NaOH \longrightarrow ?$$

(b) Conc
$$+ \frac{\text{HNO}_3 \mid \text{H}_2\text{SO}_4}{570 \text{ K}}$$
 ?

(c)
$$+ \text{NaNH}_2 \xrightarrow{\text{Heat}} ?$$
 (2)

- (c) How will you show that naphthalene consists of two benzene rings fused together? (2)
- 4. Give the uses and one method of preparation of:
 - (a) Paracetamol
 - (b) Gammaxane (BHC)
 - (c) DDT
 - (d) Sulphaguanidine (1½×4=6)

5.	(a) Explain the theory of colour and constitution.(3)(b) Give a method for the preparation of the following dyes:		
	(i) Malachite green	(1½)	
	(ii) Indigo	(1½)	
6.	How will you prepare:		
	(i) Nylon-6,6	(2)	
	(ii) Polyester from terephthalate	(2)	
	(iii) Polyvinyl Chloride	(2)	