Third Semester M. Sc. (CBCS Pattern) Chemistry Examination

ORGANIC CHEMISTRY

Paper – XII
(Natural Product – I)

P. Pages: 3

Time: Three Hours]

[Max. Marks: 80

Note: (1) All questions are compulsory.

- (2) All questions carry equal marks.
- 1. (a) Discuss :--
 - (i) Deoxy sugars
- (ii) Amino sugars.

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(b) Give structure determination of sucrose.

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OR

- (p) Define with suitable examples.
 - (i) Disaccharides.
 - (ii) Glycosides.
 - (iii) Poly saccharides.

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P.T.O.

	(q)	Draw the structure of		4.	(a)	What are Hormones? Give the applications.
		(i) Starch (ii) Lactose.	4			. 4
	(r)	Give structure determination of cellulose	2 . ·		(b)	Give synthesis of Teststerone. 8
	(-)		6		(c)	Draw structure of
2.	(a)	Define :—	•			(i) Cortison (ii) Cholesterol. 4 OR
		(i) Proteins.			(p)	Discuss structure determination of proge-
		(ii) Isoelectric point.	4			sterone. 8
	(b)	Discuss C-Terminal end group analysis.			(q)	Give synthesis of Cortisone. 8
	(c)	Explain Sanger's method in detail.	5.	(a)	Explain :—	
						(i) Dyes,
		OR				(ii) Chromophore, with examples. 4
			Í		(b)	or -y-o on the busis
	(p)	Explain structure determination of DNA.				of methods of application on fibres. 6
			8		(c)	Give synthesis of Alizazrin and Indigo. 6
	(q)	Discuss physiological effects of PGs.	8			OR
					(p)	Give synthesis of ethyl Red, with its uses.
3.		Give structure determination of Morphi Discuss synthetic steps involved in	8		(~)	6
				(4)	(q).	Draw structure of Eosin with its properties
				(+)	(r)	and uses and synthesis.
		synthesis of Nicotine.	8	•	(r)	What are the minimum requirements for a
		0.7	j			compound to be a dye? Explain in brief.
		OR				4
	(p)	Explain structure of Camphor.	8			
	(q)	Discuss structure determination of abet	tic			
	_	acid.	8			
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