M.Sc. Semester-III, Examination, Merch-2017 Organic Chemistry, Paper X, Natural Products-I, Subject Code: 3488

Time	: 2.5hrs]	
N.B.	(i) Attempt all questions.	[Marks: 70
	(ii) All questions carry equal marks	
Q.1.	(a) Discuss analytical evidences to prove the structure of maltose.	
	OR	14
Q.1.	(a) Discuss analytical evidences to prove the structure of indican.	8
	(b) Elucidate the constitution of amylose	6
Q.2.	(a) Discuss analytical evidences to prove the structure of vitamin C	8
	(b) Expalin the role of vitamins on biochemical reactions.	6
0.0	OR	O
Q.2.	(a) Discuss analytical evidences to prove the structure of α -tocopherol.	8
0.2	(b) Give the synthesis of Vitamin A.	6
Q.3.	(a) Elucidate the structure of atropine.	8
	(b) Give the synthesis of quinine.	6
Ω	OR	-
Q.3.	(a) Elucidate the structure of reserpine.	8
ΩA	(b) Explain the existence of (-O-CH ₂ -O-) methylenedioxy group in narcoting (a) What are arrived and 12 Oi	
Q.4.	(a) what are amino acids? Give the structure of following amino acids and	classify them
	of the basis of flature, function and property.	8
	(i) Glutamic acid (ii) Thyroxine (iii) Threonine (iv) Histidine	
	(b) Give the synthesis of following tripeptide by Fischer method given in 19 H-Leu-Ser-Val-OH.	15:
		6
Q.4.	OR	
ζ	(a) Describe Edman's method and Schlack-Kumpf's method employed for d	letermining
	the sequence of anniho acid polypeptine.	8
Q.5.	(b) Describe Sheehan's method for the synthesis of polypeptide.	6
χ.υ.	(a) Discuss analytical evidences to prove the structure of cadinene.(b) Give the synthesis of farnesol.	8
		6
2.5.	OR (a) Elucidate the structure of phytol.	
	(b) Prove the existence of three double bands and a second	8
	(b) Prove the existence of three double bonds and primary alcoholic group in farnesol.	6