

NE-02010308

Seat No.____

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M. Pharm. (Sem. I) Examination January - 2017 Natural Products (Core - III)

Time: 3 Hours [Total Marks: 80

Instructions: (1) Answer and tie both the sections separately.

- (2) Figures to the right indicate marks.
- (3) Answer any three from each section except 1 and 5 are compulsory.
- (4) Draw neat and clean diagram when required.

SECTION - I

- 1 Answer any seven out of given ten questions: 14
 - (1) Write biological source of saccharide natural sweetening agent and use of it.
 - (2) Define oxidation and antioxidants.
 - (3) What are immunoglobulins? Explain it.
 - (4) Write biological source of any two edible dyes.
 - (5) Explain Vitamin C and Vitamin E as antioxidants.
 - (6) Define Enzyme inhibition assay
 - (7) Define primary and secondary metabolites with examples.
 - (8) Define metabolome, metabolomics and proteomics.
 - (9) Define chemotaxonomy.
 - (10) Classify muscarinic receptors.
- 2 Answer the following:
 - (1) Note on edible dyes with its advantage and limitations. 7
 - (2) Define Sweetening agents. Write detailed note on nonsaccharide-plant sweeteners:
- **3** Answer the following:
 - (1) Discuss methods for plantbodies and application of plantibodies.

		of dereplication.	
4	Answer the following:		
	(1)	Write note on metabolomics in drug discovery.	
	(2)	Discuss herbal perfumery agents.	
		SECTION - II	
5	Write any two out of three:		14
	(1)	Give detailed phytochemical classification of plants.	
	(2)	Discuss general steps for Bioactivity Guided Isolation with its concepts.	
	(3)	Discuss relation between phytochemistry and taxonomy.	
6	Answer the following:		
	(1)	Discuss role of vitamins and minerals as dietary antioxidants.	7
	(2)	What is Radioligand receptor binding assay? Explain it in detail	6
7	Answer the following:		
	(1)	Discuss importance of enzyme inhibition in pharmacological activity.	7
	(2)	Note on natural cosmetic agents.	6
8	Answer the following:		
	(1)	What are antioxidants? Discuss the role of antioxidant in dietary supplements in case of cancer protection.	7
	(2)	Discuss chemotaxonomy in classification of plants.	6

(2) Defitie dereplication. Discuss hyphenated techniques