

HCO-003-047504 Seat No. _____

B. Voc. - Pharm. Analysis & QA (Sem -V) (CBCS) Examination

October - 2017 BVPAQA - 504: Chemistry of Natural Products	
Faculty Code: 003 Subject Code: 047504	
Time: 3 Hou	rs] [Total Marks : 70
Instructions	: (1) All Questions are compulsory and carry Equal marks.
	(2) Draw diagram and/or scheme wherever necessary.
1 (A) Answ	wer the following questions. 10
(1)	Define the term Natural products.
(2)	What is steroid?
(3)	What are true alkaloids?
(4)	Fill the blank: Taxol is drug.
(5)	Progesterone is a male sex hormone.
	(True/False)
(6)	Write any two color test for steroid.
(7)	Fill the blank: Terpine is oil.
(8)	Di Terpine contains three isoprene units. (True/False)
(9)	Which plant contains alkaloid in all parts?
(10)	Deficiency of vitamin C can causedieses.

- 20 (B) Answer the following questions. (1)Exemplify milestone structure in Natural Products (Any 4 examples) (2)Enlist different steps involved in biological screening of sample. (3)Enlist various isolation methods. Briefly explain percolation process for (4)extraction. Draw backbone structure of steroid with (5)numbering. Write the test to determine the presence of in (6) plant material. Explain in brief: Provitamins. (7)(8)Give only names of various extraction methods. Name the source of vitamin A. Enlist effects (9)caused due to deficiency of vitamin A (10) Which reagents give color test with steroid?
- 2 Answer any 4 out of the following 6 questions.
- 20

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- (1) Describe classification of terpenoids.
- (2) Derive Isoprene rule with examples.
- (3) Explain the procedure to find lead molecules from natural product.
- (4) Write a detailed note on primary metabolite and secondary metabolite.
- (5) Write a brief note on Bioactivity with examples.
- (6) Explain soxhlet extraction method with diagram

- 3 Answer any 4 out of the following 6 questions.
- 20

- (1) Write a brief note on opium alkaloids.
- (2) Classify alkaloid according to its chemical structure.
- (3) Discuss in detail: Extraction method of alkaloid.
- (4) Give detailed classification of vitamin.
- (5) Differentiate between water soluble vitamins and fat soluble vitamins.
- (6) Explain the method to extract steroid from natural product with chart.

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