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FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutical Chemistry) I – Semester (PCI) (Main & Backlog) Examination, February 2019

Subject: Chemistry of Natural Products

Time: 3 hrs Max. Marks: 75		
Note: Answer any FIVE questions. All questions carry equal marks.		
1	a) What are alkaloids? Classify alkaloids by giving one example for each clab) Write the general methods to determine the structure of alkaloids.	ss. 3+12
2	How natural products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the following classes of drugs? Explain the products acted as leads for the products acted	ain. 8+7
3	a) Give classification, isoprene and special isoprene rules of interpenoids.b) Discuss in brief the structural elucidation of citral and retinol.	3+12
4	Write a note on : a) Chemistry and physiological significance of vitamins b) Gene therapy	9+6
5	How do y characterize the structure of following natural compnds using IR, 1H NMR and 13C NMR spectral data? (Write approximate spectral values) a) Morphine b) Penicillin G c) Vitamin-D d) Quercetin e) Digoxin	5 x 3 = 15
6	Write a note on : a) Chemistry of contraceptive agents b) Stereochemistry and nomenclature of steroids c) Recombinant DNA technology and drug discovery	3 x 5 = 15
7	Discuss in detail the structural elucidation of morphine.	15
8	 a) Write down the active constituents present in the following crude drugs structures i) Swertia chirata ii) Phyllanthus niruri iii) Curcuma longa iv) Gymnema sylvestre b) Write the structural elucidation of Quercetin. 	with 4 x 2 = 8 7
