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	Code No. 1163/PCI
М.	FACULTY OF PHARMACY Pharmacy (Pharmaceutical Chemistry) I-Semester (PCI) (Main) Examination, February 2018
Time:	Subject: Chemistry of Natural Products 3 Hrs Max. Marks: 75
	Note: Answer any five questions. All questions carry equal marks.
1	Explain how natural products acted as lead molecules while designing drugs? Explain by taking any three clesses of drugs. (15)
2	(a) Write the classification and biological activity of alkaloids.(b) Discuss the structural elucidation of Reserpine (OR) Ephedrine. (5+10)
3	 (a) Discuss the stereochemistry and nomenclature of steroids. (b) Write a note on contraceptive steroids. (c) Explain structural elucidation of Quercetin (5+5+5)
4	 (a) Explain isoperene rule and discuss general methods for structural elucidation of terpenoids. (b) Discuss the chemistry and physiological significance of Vitamin A. (10+5)
5	Discuss the structural elucidation of any one monoterpenoid and one Diterpenoid. (15)
6	How do y characterize the structure of following natural compnds using IR, ¹ HNMR and ¹³ CNMR ? (Give approximate specral values). (a) Penicillin - G (b) Morphine (c) Quercetin (d) Digoxin (e) Vitamin – D (5x3)
7	 (a) Write a note on Recombinant DNA technology and how it helped in new drug discovery? (b) Write down the active constituents present in the following crude drugs by giving the structures for two compnds each: (i) Gymnema sylvestre (ii) Trigonella foenumgraccum (iii) Phyllanthus niruri (iv) Curcuma longa
8	Write a note on : (a) Anti inflammatory steroids (b) Gene therapy (c) Chemistry and biological significance of Vitamin B ₁ , B ₂ and B ₁₂

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