

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER-5 • EXAMINATION – SUMMER -2018

Subject Code: 250006

Date: 25/05/2018

Subject Name: Pharmacognosy - IV

Time: 02:30 PM TO 05:30 PM

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a) Discuss the shikimic acid pathway with structure in detail.	06
	(b) Write a brief note on tracer technique.	05
	(c) Illustrate acetate mevalonate pathway.	05
Q.2	(a) Define alkaloid. Give the classification of alkaloid with suitable example.	06
	(b) Discuss the methods used for extraction of alkaloids.	05
	(c) Describe properties and general chemical tests for identification of alkaloids.	05
Q.3	(a) Explain stereo isomerism with natural product examples.	06
	(b) Describe chemistry and biogenetic pathway of nicotine.	05
	(c) Draw the well labeled morphological and microscopical diagram of Datura leaf.	05
Q.4	(a) Discuss the life cycle of ergot.	06
	(b) Write a note on pyridine – piperidine and discuss one drug containing pyridine – piperidine alkaloid.	05
	(c) Give the biological source, chemical constituents and use of Pilocarpus and Colchicum.	05
Q.5	(a) Give the complete pharmacognosy of drug having anti – hypertensive activity.	06
	(b) Give the pharmacognosy of anti – cancer drug.	05
	(c) Write a short note on Ma – Hung.	05
Q. 6	(a) Discuss the cultivation and collection of opium alkaloid.	06
	(b) Write a short note on drug containing diterpene alkaloids.	05
	(c) Write a note on drug containing Imidazole alkaloid.	05
Q. 7	(a) Give a brief note on Hemlock and Dubosia.	06
	(b) Give the pharmacognosy of Hellbore.	05
	(c) Discuss the adulterants and allied drugs of Nux vomica.	05
