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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER - 8 EXAMINATION - SUMMER -2019

Subject Code: 2280005 Date: 16-05-2019

Subject Name: Pharmacognosy-VI

Time: 10:30 AM TO 01:30 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)	Enumerate different parameters for standardization of Amla extract. Explain any two in detail.	06
	(b)	Write therapeutic significance, isolation method and qualitative identification of Cinchona alkaloids.	05
	(c)	Describe a suitable method for isolation of Streptomycin.	05
Q.2	(a) (b) (c)	Write therapeutic significance and different isolation methods of Diosgenin. Give a brief account on Soxhlet extraction with well labeled diagram. Describe in detail recent natural products used as Immunomodulators.	06 05 05
Q.3	(a)	Give qualitative and quantitative analytical methods for evaluation of Alkaloids.	06
	(b)	Enlist sources of Sennosides. Explain principle and procedure for estimation of Sennosides as per IP method.	05
	(c)	Discuss in brief concept of GMP in herbal drug industry.	05
Q.4	(a)	Enumerate different estimation methods of Morphine in Opium. Discuss any two in detail.	06
	(b)	Write a short note on Phytopharmacovigilance.	05
	(c)	Give sources and therapeutic significance of Podophyllotoxin. Discuss its method of isolation and purification.	05
Q.5	(a)	Mention natural sources of Rutin. Describe qualitative identification tests and quantitative estimation methods of Rutin.	06
	(b)	Write a note on natural products used as Anticancer agents.	05
	(c)	Give salient features of Pilot plant scale up techniques in herbals.	05
Q. 6	(a)	Discuss the modern herbal drugs used as Antidiabetics. Give method of isolation, identification and estimation of Vitamin A.	06
	(b) (c)	Write evaluation techniques for Volatile oil containing drugs.	05 05
Q.7	(a)	What is ISO 9000? Elaborate the benefits of implementation of ISO 9000 in herbal drug industry.	06
	(b)	Enlist Non-conventional extraction methods. Write a note on Microwave assisted extraction method.	05
	(c)	Discuss method of isolation, identification and estimation of Menthol.	05
