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Seat No.: _____

Subject Code:BP603TP

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. - SEMESTER-VI • EXAMINATION - WINTER -2020

Time	Subject Name: HERBAL DRUG TECHNOLOGY Time: 02:00PM TO 04:00PM Instructions: 1. Attempt any THREE questions from Q-1 to Q-6.		
2. 3. 4. Q.1	Q.7 is compulsory to attempt. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
	(a)	What is <i>churna</i> ? Describe in detail method of preparation of <i>churna</i> . Describe general procedure for standardization of <i>churna</i> as per Ayurvedic Pharmacopoeia of India. Describe advantages and disadvantages of <i>churna</i> as a formulation.	06
	(b) (c)	Discuss history of herbs as source of drugs and drug discovery. Discuss the different methods used for the pest control. Write essential of a good pesticides.	05 05
Q.2	(a)	What is <i>Bhasma</i> ? Describe in detail method of preparation of <i>Bhasma</i> . Describe quality control parameters for <i>Bhasma</i> . In which condition <i>Bhasma</i> is required to be prescribed?	06
	(b) (c)	What is <i>gutika</i> ? Discuss standardization parameters of the same. Name different traditional systems of medicine. Describe holistic concept of drug administration in these systems.	05 05
Q.3	(a)	Name different herbs and their active constitute which are useful as hepatoprotective or hypolipidemic.	06
	(b) (c)	Define and classify the Nutraceuticals. Discuss the drug –food interaction with suitable examples.	05 05
Q.4	(a)	Define and classify the herbal cosmetics. Write in details pharmacognosy of any two plants used for skin cosmetics.	06
	(b) (c)	Enlist various cosmetics for hairs. Explain about herbal shampoos in detail. Enlist various herbal excipients and describe in detail about flavours and perfumes.	05 05
Q.5	(a)	Enlist various herbal formulations available in market and explain in detail about herbal syrup.	06
	(b) (c)	Elaborate on ICH guidelines for safety monitoring of natural products. Enlist various government institutions / industries involved in work of medicinal plants in India and write a note on any five Government institutions / industries.	05 05
Q. 6	(a) (b)	Write a note on WHO guidelines in quality assignment of herbal drugs. Discuss about requirement of infrastructure, staff and equipments for herbal drug industry.	06 05
	(c)	Write a note on patenting aspects of Traditional Knowledge and Natural Products with reference to turmeric.	05
Q.7	(a)	Define the term – Patent, Bio prospecting and Bio piracy OR	06
	(a)	Give the detailed note on plant sweetening agents. OR OR	06

(a) Explain in detail about herbal phytosomes.