www.FirstRanker.com

www.FirstRanker.com

Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- 8 EXAMINATION - WINTER -2019

Subject Code: 2280014	Date: 27-11 -	-2019
-----------------------	----------------------	-------

Subject Name: Commerce of herbs and Phytoconstitutents

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) (b) (c)	Describe different methods of isolation of Curcumin and δ -tubocurarine. Explain isolation and evaluation of Morphine. Discuss constraints to the development of trade of medicinal plants.	06 05 05
Q.2	(a) (b) (c)	Discuss contribution of Boswelia, Aloe and Ipecac in world wide trade. Write note on production and supply of herbal drug in herbal drug industry. Describe patents and copyright of herbal drug.	06 05 05
Q.3	(a)	Describe constrains to the development of trade specially to least developed countries (LDCs).	06
	(b)	Describe modern quality control system for medicinal plants in herbal drug industry.	05
	(c)	Write note on medicinal plant based industries in ISM.	05
Q.4	(a)	Explain modern methods for extraction of phytochemical from the herbal drugs.	06
	(b)	Discuss license and registration process required for herbal drug industry in India.	05
	(c)	Explain the working of industrial staff members.	05
Q.5	(a) (b) (c)	How to isolate, identify and analyze the Taxol and Papain? Describe in brief the import and export of herbal drugs. Write a short note on cultivation of medicinal plants.	06 05 05
Q. 6	(a)	Outline WHO guidelines on good agriculture and collection practices for medicinal plants.	06
	(b) (c)	Write a short note on herbal wealth of India. Describe trade structure of medicinal plants in developing countries.	05 05
Q.7	(a) (b) (c)	Write a short note on drug registration process for import export. Differentiate between wild harvesting and cultivated material. Give the industrial application of vinca alkaloids and artemisin.	06 05 05
