Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2015

Subject Code: 2920105 **Date: 14-05-2015**

Subject Name: Advance Analytical Pharmacognosy

Time: 10:30 am - 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)	Enlist different dosage form of Ayurvedic formulations. Give methods of preparation and standardization of medicated wine.	**06**
	(b)	Give the difference between Ayurvedic and herbal formulation and give the brief detail on Ayurvedic texts.	**05**
	(c)	Describe preparation and standardization of ghirta and taila.	**05**
Q.2	(a)	Explain tridosha theory in Ayurvedic system of medicine.	**06**
	(b)	Explain methods and importance of shodhan process in formulation of Bhasma.	**05**
	(c)	Discuss "Ayurvedic Bhasma as the most ancient application of nanomedicine".	**05**
Q.3	(a)	Describe the methods to study the toxicity of any herbal drugs	**06**
	(b)	What is mutagenicity? Explain methods for its evaluation.	**05**
	(c)	Describe methods for evaluation of teratogenicity	**05**
Q.4	(a)	Give a brief account on marine pharmacognosy along with its classification.	**06**
	(b)	Discuss anticancer drugs from marine source.	**05**
	(c)	Describe marine sources with possible mechanism of action for anti-inflammatory and antimicrobial activity.	**05**
Q.5	(a)	Discuss the method and importance of heavy metal analysis in standardization of herbal drugs.	**06**
	(b)	Describe importance for fungal toxins and pesticide residue in herbal drug analysis.	**05**
	(c)	Explain the methods for analysis of microbial contamination	**05**
Q. 6	(a)	Write brief note on Schedule T.	**06**
	(b)	Explain methods to check efficacy of any herbal drug for diabetes.	**05**
	(c)	Write a note on obtaining license for manufacturing Ayurvedic and other drugs of traditional origin.	**05**
Q.7	(a)	Write a note on herb drug interaction by giving suitable examples.	**06**
	(b)	Define stability study. Give ICH guidelines for stability testing.	**05**
	(c)	Explain factors affecting stability of herbal formulations.	**05**

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