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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI(NEW) - EXAMINATION - SUMMER 2019 Subject Code:2163605 Date:21/05/2019

Subject Name: Technology of Solid Dosage forms & Medicinal Natural

**Products** 

Time:10:30 AM TO 01:00 PM Total Marks: 70

### **Instructions:**

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

			MARKS
Q.1	(a) (b)	Briefly mention the side effects of alkaloid- Hyoscyamine on human body Write a note on supercritical fluid extraction. Mention the advantages of Carbon dioxide.	03 04
	(c)	Describe how Phenylalanine and Tyrosine are made from Shikkimic acid pathway biosynthetically	07
Q.2	(a)	Write a short note on Extraction of drug mentioning the steps involved in extraction process.	03
	(b) (c)	Write short notes on (i). Countercurrent extraction, (ii). Comminution Describe Morphological, Chemical & Chemo-taxonomical classifications of drug.	04 07
		OR	
	(c)	Enlist the method of microencapsulation. Explain in detail air suspension method	07
Q.3	(a)	Differentiate between Hard & soft gelatin capsule	03
	<b>(b)</b>	Write a note on sugar coating of tablet	04
	<b>(c)</b>	Describe isolation of (1).Nicotine & (2).Bromolain  OR	07
Q.3	(a)	List out the uses of TLC in phytochemical analysis of herbal drugs	03
	<b>(b)</b>	Illustrate briefly how steroid (Lanosterol) is made biosynthetically from mevalonate pathway?	04
	<b>(c)</b>	Enlist quality control test of tablets and describe disintegration test in detail	07
Q.4	(a)	Mention: (i). an example of Lignan, (ii). Any two tests for detecting cardiac glycoside.(iii).the secondary metabolite in plants	03
	<b>(b)</b>	What is microencapsulation? Give the advantages of microencapsulation	04
	(c)	Define tablet and describe various method of granulation  OR	07
Q.4	(a)	Suggest a method for the conversion of Morphine to Codeine	03
	<b>(b)</b>	Write in brief about gelatin manufacturing process along with the types of gelatin	04
	<b>(c)</b>	Explain Maceration, Infusion, Digestion and Decoction	07
Q.5	(a) (b)	Describe the synthesis of menthol What are the defects of tablet coating. Explain.  Describe the isolation of two antipoplastic drugs derived from Pariwinkle.	03 04
	(c)	Describe the isolation of two antineoplastic drugs derived from Periwinkle	07



# www.FirstRanker.com OR Q.5 (a) What are the types of tablet coating (b) Briefly describe the role of genetic marker in herbal drug technology. (c) Draw a neat-labeled diagram of the layout of tablet manufacturing facility. Describe each section in brief.

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