Enrolment No.\_\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY** M. Pharm. – SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject Code: 2920108Date: 29-05-2014Subject Name: Industrial Pharmacy-IIITotal Marks: 80Time: 02:30 pm - 05:30 pmTotal Marks: 80Instructions:Total Marks: 80			
	1. 2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	<ul><li>Explain the procedural requirements for obtaining manufacturing license for Parenteral department.</li><li>Give the approval formalities for pharmaceutical industry as per factory act.</li><li>Give the objects and salient features of legislations governing Pharmaceutical Industry-Pollution control act.</li></ul>	06 05 05
Q.2	(a) (b) (c)	Give the penalties listed in Industrial Development & Regulation Act 1951 for contravention of provisions. Describe on Prevention of Food Adulteration Act 1954. Discuss on Factors affecting selection of packaging components.	06 05 05
Q.3	(a) (b) (c)	<ul><li>With a neat sketch explain the strip packing machine. Give economics and limitation of strip packing.</li><li>How will you evaluated sterile product packages?</li><li>With a neat sketch explain the ampoule filling and sealing machine.</li></ul>	06 05 05
Q.4	(a) (b) (c)	Discuss on formulation and evaluation of nanosuspension. Write a note on recent advances in disperse system technology with emphasis on suspensions and emulsions. Describe the pharmacopoeial parameters for evaluation of aerosols.	06 05 05
Q.5	(a) (b) (c)	<ul><li>Explain SVP and LVP. Draw a detailed flowchart for manufacture of corticosteroid oily injection with details of components, processing equipments, and IPQC tests.</li><li>What are the factors affecting drug release from semisolids? Describe the Quality control of semisolid dosage forms.</li><li>Design a stability protocol for liquid dosage form.</li></ul>	06 05 05
Q. 6	(a) (b) (c)	Discuss the SUPAC guideline for Modified release Dosage form with equipments amendment. Give the CFR 21 considerations for stability studies. Enumerate the various ICH guidelines as they have been classified with codes. Discuss the production and evaluation of Oriented and non-Oriented films for flexible packages.	06 05 05
Q.7	(a) (b) (c)	With a neat sketch explain blister packing machine. How are blister packs evaluated? Describe in-process quality control tests for liquid injectables in vial pack. Write a note on BACPAC guidelines for API.	06 05 05

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