

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

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