

GUJARAT TECHNOLOGICAL UNIVERSITY**M.PHARM- SEM-II-EXAMINATION – JULY 2012****Subject code: 2920108****Date: 06/07/2012****Subject Name: Industrial Pharmacy III****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.

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| Q.1 | (a) | Describe the legislative requirements of WHO GMP certification scheme. | 06 |
| | (b) | Explain the procedural requirements for obtaining manufacturing license for tablet department. | 05 |
| | (c) | Give the approval formalities for pharmaceutical industry as per factory act. | 05 |
| Q.2 | (a) | Describe various types of wastes generated in a liquid oral manufacturing facility and plan its disposal. | 06 |
| | (b) | Explain the provisions of Consumer Protection Act. | 05 |
| | (c) | Explain the provisions for Preservatives as per Food Adulteration Act 1954. | 05 |
| Q.3 | (a) | Discuss the powers and procedures followed by food inspectors. | 06 |
| | (b) | Give the penalties listed in Industrial Development & Regulation Act 1951 for contravention of provisions. | 05 |
| | (c) | Write a note on BACPAC guidelines for API. | 05 |
| Q.4 | (a) | With a neat sketch explain the strip packing machine. Give disadvantages of strip packing. | 06 |
| | (b) | Explain the factors affecting selection of blister materials. How are blister packs evaluated? | 05 |
| | (c) | Write a note on FFS (Form Fill Seal) technology. | 05 |
| Q.5 | (a) | Describe in-process quality control tests for liquid injectables in vial pack. | 06 |
| | (b) | Write a note on formulation & evaluation of nanoemulsions. | 05 |
| | (c) | Describe the pharmacopoeial parameters for evaluation of aerosols. | 05 |
| Q. 6 | (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? Give a list of equipments required for a semisolid manufacturing dept. | 05 |
| | (c) | Write a note on bracketing and matrixing used in stability studies. | 05 |
| Q.7 | (a) | Give the CFR 21 considerations for stability studies. Enumerate the various ICH guidelines as they have been classified with codes. | 06 |
| | (b) | Design a stability protocol for tablets. | 05 |
| | (c) | Give SUPAC guidelines for Immediate release dosage forms. | 05 |