

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharmacy Sem-I Examination January 2010

Subject code: 910202

Subject Name: Industrial Pharmacy

Date: 30 / 01 / 2010

Time: 12.00 – 3.00 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 utility services for pharmaceutical industry. | 06 |
| | (b) Explain qualitative and quantitative departmental layout for liquid orals. | 05 |
| | (c) Preparation of SOP for sterile packaging. | 05 |
| Q.2 | (a) Explain personnel facilities for pharmaceutical industry. | 06 |
| | (b) Explain GMP, cGMP and FDA in pharmaceutical industry. | 05 |
| | (c) General equipments required for quantitative analysis for pharmaceuticals. | 05 |
| Q.3 | (a) Describe HVAC and its pharmaceutical importance. | 06 |
| | (b) Explain objectives of SOP with examples. | 05 |
| | (c) GMP and its implementation for vaccine production. | 05 |
| Q.4 | (a) Explain BMR with suitable examples. | 06 |
| | (b) Write a note on ABC concept. | 05 |
| | (c) Revised scheduled M for GMP. | 05 |
| Q.5 | (a) Explain validation protocol and its contents. | 06 |
| | (b) Describe in detail rapid mixer granulator. | 05 |
| | (c) Selection of location for pharmaceutical industry. | 05 |
| Q. 6 | (a) Explain operational aspects and requirements for pilot plan and scale- up technique. | 06 |
| | (b) Describe various blenders used in pharmaceutical industry. | 05 |
| | (c) Explain production planning for tablet preparation. | 05 |
| Q.7 | (a) | 06 |
| | Explain scale-up consideration for solid dosage forms. | |
| | (b) Explain inventory management and economic order quantity. | 05 |
| | (c) Describe objectives, similarity consideration and development cycle in pilot-plan and scale-up technique. | 05 |
