

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2013

Subject Code: 910108**Date: 15-05-2013****Subject Name: Industrial Pharmacy-I****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) Explain the role of HVAC system in pharmaceutical plant | 06 |
| | (b) Write a note on personal facilities in pharmaceutical industry | 05 |
| | (c) Enlist the factors to be considered while selecting a site for Pharmaceutical Plant | 05 |
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| Q.2 | (a) Describe the departmental layout for liquid oral dosage form | 06 |
| | (b) Enlist equipments required in the manufacture of solid, liquid and parenteral dosage form at pilot level | 05 |
| | (c) Discuss the factors affecting equipment design in pharmaceutical plant | 05 |
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| Q.3 | (a) Write a note on schedule M for tablet manufacturing unit | 06 |
| | (b) Enlist equipments require for manufacturing of semisolid dosage forms and discuss any one in detail | 05 |
| | (c) Describe operating principal of bi-layer rotary tablet machine | 05 |
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| Q.4 | (a) Explain BMR with suitable examples | 06 |
| | (b) Explain validation protocol and its contents | 05 |
| | (c) Explain validation of rapid mixer granulator | 05 |
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| Q.5 | (a) What is important of Standard operating procedure? Write Standard operating procedure for dissolution test apparatus | 06 |
| | (b) Explain standard operating procedure for granulation process at production level | 05 |
| | (c) Explain in Process quality control test for sterile dosage forms | 05 |
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| Q. 6 | (a) Explain importance of GMP in pharmaceutical industry | 06 |
| | (b) Explain production planning for tablet manufacturing | 05 |
| | (c) What is importance of materials control in Pharmaceutical industry | 05 |
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| Q.7 | (a) Explain Manufacturing steps and control condition require for formulate sterile dosage form | 06 |
| | (b) Explain primary and secondary packaging materials | 05 |
| | (c) Write a note on Scrap disposal procedure and records | 05 |
