

GUJARAT TECHNOLOGICAL UNIVERSITY**M. Pharm. – SEMESTER– I • EXAMINATION – SUMMER-2016****Subject code: 910108****Date: 27/05/2016****Subject Name: Industrial Pharmacy – I****Time: 10:30 AM to 1:30 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) Discuss Personnel facilities in context to GMP. | 06 |
| | (b) Prepare qualitative and quantitative department layout with equipments for manufacture of Compressed Tablets. | 05 |
| | (c) Explain the importance of IPQC in Pharmaceutical Industry. Enlist IPQC tests for solid dosage forms and semisolid products. | 05 |
| Q.2 | (a) Enumerate the requirements for plant and equipment for manufacture of External preparations in context to revised schedule M and discuss principle, construction and working of Colloid mill. | 06 |
| | (b) Discuss BMR in context to GMP. | 05 |
| | (c) Write short note on SOP and SOP. | 05 |
| Q.3 | (a) Discuss the role of technology of indoor environmental control in pharmaceutical Industry in context to GMP. | 06 |
| | (b) Define GMP and explain its importance in pharmaceutical production. Give full form of following abbreviations: (i) ICH (ii) MHRA (iii) CFR (iv) MCC (v) TGA and (vi) EUGMP | 05 |
| | (c) Write a note on types of plant layout. | 05 |
| Q.4 | (a) Discuss various dust collecting systems used in pharmaceutical Industry. | 06 |
| | (b) Write short note on Validation protocol. | 05 |
| | (c) Write a note on PAT. | 05 |
| Q.5 | (a) Mention the requirements of plant and equipments for manufacture of Parenteral preparations in context to revised schedule M. | 06 |
| | (b) Explain line clearance and reconciliation of labels, cartoons and other packaging materials in context to GMP. | 05 |
| | (c) Prepare quantitative layout for manufacture of liquid preparation. | 05 |
| Q.6 | (a) Discuss in detail principle, working and construction of Fluid bed dryer. | 06 |
| | (b) Write SOP for Liquid oral filling operation. | 05 |
| | (c) Write short note on Complaints and Recalls in context to GMP. | 05 |
| Q.7 | (a) Discuss various precautions against mix-up and cross-contamination in pharmaceutical production in context to pharmaceutical manufacturing and controls under GMP. | 06 |
| | (b) Discuss the responsibilities of Quality control unit and personnel qualifications in context to Organization and personnel under GMP. | 05 |
| | (c) Discuss monitoring of various environmental parameters in context to Manufacture of sterile products. | 05 |
