GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. - SEMESTER - I • EXAMINATION - SUMMER • 2015 Subject Code: 910108 Date: 21-05-2015 Subject Name: Industrial Pharmacy-I Time: 02:30 pm to 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. 0.1 Discuss the factors to be considered while selecting a location for 06 (a) pharmaceutical factory. Explain HVAC giving its importance. 05 **(b)** Write a note on water systems in pharmaceutical industry. (c) 05 Q.2 Explain the layout of material flow in parenteral production department. 06 (a) Write a note on schedule M for tablet manufacturing unit. 05 **(b)** Define production planning and explain various procedures used for production (c) 05 planning. 0.3 **(a)** Explain BMR with suitable examples. 06 Explain documentation of rejected and recalled goods. 05 **(b)** Describe the validation of tunnel sterilizer. (c) 05 Describe the cGMP requirements for laboratory records and reports. **Q.4** (a) 06 Write SOP for cleaning and disinfection of the sterile area for class 10,000 and 05 **(b)** class 100. Give ICH guidelines on specifications for impurities in laboratory control under (c) 05 cGMP. Q.5 Describe objectives of scale up techniques. Explain scale up consideration for 06 **(a)** semisolid dosage forms. Explain GMP guidelines for packaging and labeling controls. 05 **(b)** Explain validation protocol and its contents. (c) 05 **Q.** 6 **(a)** Explain inventory management and economic order quantity. **06** Write about inventory control of raw materials. **(b)** 05 Write a note on ABC concept. (c) 05 **Q.7** Explain in processes quality control tests for sterile dosage forms. 06 **(a)** Give a layout of manufacturing area for cosmetics. **(b)** 05 (c) How scalability can be improved in pharma processes? 05
