Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B. PHARM (SEMESTER-8) SUMMER-2015

Subject code: 280002 Date: 30/04/2015 Subject Name: Pharmaceutical Technology-II 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** Describe role of diluents in tablet manufacturing. Discuss directly 06 (a) compressible diluents with suitable examples. (b) Explain in process quality control parameters of tablets. 05 Describe filling operation for hard gelatin capsules. 05 (c) **Q.2** (a) Describe significance of dry granulation process. Explain working 06 and process variable of dry granulator. Enlist types of tablet coater. Describe process variables for pan (b) 05 Describe soft gelatin capsule manufacturing process. 05 (c) **Q.3** Enumerate defects observed in tablet compression process. Explain (a) 06 capping and lamination with its causes and remedies. Describe multistation rotary tablet compression cycle with diagram. 05 (b) Discuss application of biodegradable polymers in 05 (c) microencapsulation. 0.4 Classify type of packing materials. Discuss criteria for selection of 06 (a) pharmaceutical packaging material. Describe formulation aspects of baby care products. 05 (b) What is validation? Discuss validation of wet granulation process. 05 (c) 0.5 Describe significance of GMP in pharmaceutical industry. Discuss (a) 06 personnel requirements as per GMP. Write a note on tamper evident packaging. (b) 05 Explain spray drying and spray congealing process of 05 (c) microencapsule manufacturing. Define SOP. Describe content and format of SOP. Q. 6 (a) 06 Write a note on Shaving cream. 05 (b) (c) Enlist quality control parameters of soft gelatin capsules. Explain 05 dissolution study for soft gelatin capsule. **Q.7** Describe basic formula and evaluation parameters of floating tablets. 06 (a) Discuss validation of steam sterilizer. (b) 05 05 (c) Describe Pharmaceutical product recovery and reprocessing as per GMP.
