

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER VIII–EXAMINATION – WINTER -2021

Subject Code: 2280002**Date: 25/11/2021****Subject Name: Pharmaceutical Technology II****Time: 10:30am to 01:30pm****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) Write in details about colon drug delivery tablets and its evaluation. **06**
(b) What are the objectives of coating? Explain the basic process of steps of Sugar coating. **05**
(c) Discuss piston tamping principle for filling of hard gelatin capsule. **05**
- Q.2** (a) Discuss in detail granulation methods used for the manufacturing of tablet with special reference to roller compactor. **06**
(b) Write a note of use and care of tablet compression tooling **05**
(c) Enumerate methodologies of microencapsulation and Discuss in detail spray drying and spray congealing method. **05**
- Q.3** (a) What are soft gelatin capsules? Describe rotary die process for the preparation. **06**
(b) How does particle geometry affect pharma processing? Discuss HME technology in brief for extrusion and pelletization. **05**
(c) Give drug delivery applications of supercritical fluid technology **05**
- Q.4** (a) What is SCF? State the challenges of SCF (supercritical fluid technology). **06**
(b) Explain in detail process quality control parameters of tablets. **05**
(c) What is extrusion and pelletization and describe equipment for the same. **05**
- Q.5** (a) Classify type of packing materials. Discuss criteria for selection of pharmaceutical packaging material. **06**
(b) Explain in detail the role of polyethylene oxide and Eudragit in melt extrusion process. **05**
(c) Write short note on blister and strip packaging technique. **05**
- Q. 6** (a) Briefly explain the Applications of biodegradable and nonbiodegradable polymers **06**
(b) Discuss evaluation of tablets as per IP **05**
(c) What is difference between buccal and sublingual tablet? Write a note on buccoadhesive polymers used in buccal formulation. **05**
- Q.7** (a) What is Primary and secondary packaging? Discuss stability aspects of packaging materials. **06**
(b) Explain microspheres and microcapsules. Describe their significance in drug delivery. **05**
(c) Comment: Pellets formulation are widely being preferred dosage form Explain evaluation parameters for pellets in detail. **05**
