

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2019

Subject Code: 280002**Date: 08-05-2019****Subject Name: Pharmaceutical Technology- II****Time: 10:30 AM TO 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.

- Q.1** (a) Define pharmaceutical package. Enlist the criteria for selection of package type and packaging material. Classify the packaging materials. **06**
- (b) Give the evaluation test for closure as per IP. Write note on temper evident packaging. **05**
- (c) Discuss regulatory requirements in pharmaceutical packaging. **05**
- Q.2** (a) Differentiate between direct compression and wet granulation methods for tablet. **06**
- (b) Define tablets. Give a brief account of processing problems and its remedies for tablets. **05**
- (c) Enumerate specialized coating processes. **05**
- Q.3** (a) Give a brief account on Cosmeceuticals. **06**
- (b) Describe formulation aspects of baby care products. **05**
- (c) Explain the popular cosmetic which contains Nitrocellulose as film former. **05**
- Q.4** (a) Enlist methodologies of microencapsulation and discuss in detail coacervation – phase separation method. **06**
- (b) Discuss quality control parameters of soft gelatin capsules. **05**
- (c) Define SOP. Describe content and format of SOP. **05**
- Q.5** (a) Describe filling operation for hard gelatin capsules. **06**
- (b) Briefly discuss the Good Manufacturing Practice for Pharmaceuticals. **05**
- (c) Give the advantages of pharmaceutical validation. How will you perform validation of steam sterilizer? **05**
- Q. 6** (a) Comment: **06**
- (i) Plastic containers are more preferable than glass containers in Large Volume Parenterals.
- (ii) Mannitol is used as diluent in chewable tablet.
- (iii) Blooming and covering agents is added in face powder.
- (b) Explain and classification of tablet tooling. **05**
- (c) Justify: Documentation is an essential part in GMP. **05**
- Q.7** (a) Explain the formulation and evaluation test on buccal tablets. **06**
- (b) Describe biodegradable and non-biodegradable polymers used in microcapsules. **05**
- (c) Write a note on blister and strip package. **05**
