

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.PHARM. - SEMESTER– VIII • EXAMINATION – SUMMER-2016****Subject Code: 280002****Date: 30/04/2016****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** (a) Classify the various technique of microencapsulation? Give a brief account on multiorifice centrifugal process. **06**
- (b) Discuss in brief following tests for tablet: **05**
- Disintegration test
  - Dissolution test
- (c) Write a detail note on directly compressible diluents. **05**
- Q.2** (a) Explain the process of making of hard gelatin capsule shell. **06**
- (b) Name the method of tablet granulation and discuss principle and working of Day Nauta Mixer granulator. **05**
- (c) Enumerate the components used in film coating solution with their use and Compare sugar coating and film coating process. **05**
- Q.3** (a) Give a brief outline on manufacturing method and evaluation of buccal tablets. **06**
- (b) Give a brief account on manicure preparations. **05**
- (c) Discuss the properties of glass and plastic container for parenteral product. Explain the water attack test for glass container. **05**
- Q.4** (a) Describe the Rotary die process for manufacturing of soft gelatin capsule. **06**
- (b) Write a note on tamper evident packaging. **05**
- (c) Discuss the causes and remedies of following defects in tablet manufacturing: **05**
- Orange peel defects
  - Mottling
- Q.5** (a) Discuss in brief evaluation parameters for Hard gelatin capsule. **06**
- (b) Describe the Air suspension technique for microencapsulation. **05**
- (c) What are the components of a shampoo? Give examples and use of each component. **05**
- Q.6** (a) Answer the following questions. **06**
1. Describe the mechanism of disintergrants used in tablet.
  2. Enlist the stage of sugar coating and indicate the purpose of each stage.
  3. Describe the need of enteric coating and name the polymer used for it.
- (b) Explain in brief provision related to master formula record (MFR) as per GMP. **05**
- (c) Write note on baby care products. **05**
- Q.7** (a) Discuss the followings with reference to GMP **06**
1. Building and facilities
  2. Personnel
- (b) Give a brief outline about regulatory requirements in pharmaceutical packaging. **05**
- (c) What is Recovery and Reprocessing? Explain product Recovery and Reprocessing procedure. **05**