

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – VIII • EXAMINATION – WINTER • 2016**

**Subject Code: 280002**

**Date: 22-11-2016**

**Subject Name: Pharmaceutical Technology- II**

**Time: 02:30 pm - 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.**

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|------|-----|--|---|
| Q-1. | (a) | Define tablet. Write down its advantage and disadvantage in detail.  | 6 |
|      | (b) | Enlists various evaluation parameters of tablet. Explain weight variation and content uniformity as per USP. | 5 |
|      | (c) | Draw the compression cycle of a rotary tablet press with explanation.  | 5 |
| Q-2. | (a) | Write down the principles of tablet coating. Explain the steps of sugar coating.                             | 6 |
|      | (b) | Enlists the material used for film coating. Write the attributes of ideal materials for film coating.        | 5 |
|      | (c) | Explain the IPQC and processing problem associated with tablet manufacturing.                                | 5 |
| Q-3. | (a) | Explain the method of production of gelatin and hard gelatin capsules with flow diagram.                     | 6 |
|      | (b) | Explain the formulation and types of filling operation in hard gelatin capsules.                             | 5 |
|      | (c) | Discuss in detail about rotary die process of soft gelatin capsules with diagram.                            | 5 |
| Q-4. | (a) | Enlist various method of microencapsulation and explain any one in detail.                                   | 6 |
|      | (b) | Enlists and discuss various evaluation parameters for micro-capsulation.                                     | 5 |
|      | (c) | Discuss the quality control parameters for soft gelatin capsules.  | 5 |
| Q-5. | (a) | Classify cosmetics. Write a note on sunscreen.   | 6 |
|      | (b) | Write down the formulation and evaluation of toothpaste.   | 5 |
|      | (c) | Differentiate between vanishing cream and cold cream with suitable examples.                                 | 5 |
| Q-6  | (a) | What is temper evident packing? Explain the evaluation test for closures.                                    | 6 |
|      | (b) | Discuss the criteria for selection of packaging materials. Classify the packaging materials.                 | 5 |
|      | (c) | Write down the difference between primary and secondary packaging materials with suitable examples.          | 5 |
| Q-7. | (a) | Discuss the premises facility requirement as per GMP.  | 6 |
|      | (b) | Discuss the manufacturing and evaluation parameters for floating tablets.                                    | 5 |
|      | (c) | Explain the classification of tablet tooling.  | 5 |

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