

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

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

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-VIII Summer 2012 Examination

Subject code: 280002

Subject Name: Pharmaceutical Technology – II

Time: 10:30am to 1:30pm

Date: 17-05-2012

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) Enlist various IPQC tools for the evaluation of tablets. Explain F1 and F2 in case of dissolution of tablets. **06**  
(b) Explain in detail the sugar coating process with necessary examples of excipients. **05**  
(c) Give the difference between wet granulation and dry granulation. **05**
- Q.2** (a) Write a short note on various excipients along with examples used in film coating of tablets along with typical film coating formulation. **06**  
(b) Write a note on various tablet defects related to excipients. **05**  
(c) Explain quality control tests of hard and soft gelatin capsules. **05**
- Q.3** (a) Enumerate different methods for preparation of microcapsules and explain any one of them in brief with suitable example. **06**  
(b) Write a note excipients and additives used in the capsule formulation. **05**  
(c) Mention the classification of diluents used in tablet manufacturing and explain any one type in detail. **05**
- Q.4** (a) Explain the classification of tablet tooling. **06**  
(b) Explain the method of manufacturing and evaluation of floating tablets. **05**  
(c) Write a note on validation of granulation process in tablet manufacturing. **05**
- Q.5** (a) Write a note on glass used for packaging of pharmaceuticals with pharmacopoeial tests for its evaluation. **06**  
(b) Write a note on blister and strip package. **05**  
(c) Explain the filling process of hard gelatin capsules. **05**
- Q. 6** (a) Give a brief account on Cosmeceuticals. **06**  
(b) Explain the popular cosmetic which contains Nitro cellulose as film former. **05**  
(c) Give the detailed formulation and evaluation of dental products. **05**
- Q.7** (a) Explain GMP with special ref. to personnel. **06**  
(b) Explain in detail the validation of steam sterilizer. **05**  
(c) What is SOP? Explain SOP requirements in processing and packaging operation. **05**

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