

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.

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|-------------|-----|---|-----------|
| <b>Q.1</b>  | (a) | Enlist various IPQC tools for the evaluation of tablets. Explain F1 and F2 in case of dissolution of tablets.                             | <b>06</b> |
|             | (b) | Explain in detail the sugar coating process with necessary examples of excipients.  | <b>05</b> |
|             | (c) | Give the difference between wet granulation and dry granulation.  | <b>05</b> |
| <b>Q.2</b>  | (a) | Write a short note on various excipients along with examples used in film coating of tablets along with typical film coating formulation. | <b>06</b> |
|             | (b) | Write a note on various tablet defects related to excipients.   | <b>05</b> |
|             | (c) | Explain quality control tests of hard and soft gelatin capsules.  | <b>05</b> |
| <b>Q.3</b>  | (a) | Enumerate different methods for preparation of microcapsules and explain any one of them in brief with suitable example.                  | <b>06</b> |
|             | (b) | Write a note excipients and additives used in the capsule formulation.  | <b>05</b> |
|             | (c) | Mention the classification of diluents used in tablet manufacturing and explain any one type in detail.                                   | <b>05</b> |
| <b>Q.4</b>  | (a) | Explain the classification of tablet tooling.   | <b>06</b> |
|             | (b) | Explain the method of manufacturing and evaluation of floating tablets.   | <b>05</b> |
|             | (c) | Write a note on validation of granulation process in tablet manufacturing.  | <b>05</b> |
| <b>Q.5</b>  | (a) | Write a note on glass used for packaging of pharmaceuticals with pharmacopoeial tests for its evaluation.                                 | <b>06</b> |
|             | (b) | Write a note on blister and strip package.  | <b>05</b> |
|             | (c) | Explain the filling process of hard gelatin capsules.   | <b>05</b> |
| <b>Q. 6</b> | (a) | Give a brief account on Cosmeceuticals.   | <b>06</b> |
|             | (b) | Explain the popular cosmetic which contains Nitro cellulose as film former.   | <b>05</b> |
|             | (c) | Give the detailed formulation and evaluation of dental products.  | <b>05</b> |
| <b>Q.7</b>  | (a) | Explain GMP with special ref. to personnel.   | <b>06</b> |
|             | (b) | Explain in detail the validation of steam sterilizer.   | <b>05</b> |
|             | (c) | What is SOP? Explain SOP requirements in processing and packaging operation.  | <b>05</b> |

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