

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. Semester – IIND Examination – June/July- 2011

Subject code: 920207

Subject Name: Quality Control & Quality Assurance

Date: 04/07/2011

Time: 10:30 am – 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) | Discuss the steps involved in ANDA submission. How does ANDA differ from NDA? | 06 |
| | (b) | Discuss the following terms in association with ICH : (i) EWG (ii) Concept Paper (iii) Final Business Plans | 05 |
| | (c) | Write an explanatory note on NDA submission. | 05 |
| Q.2 | (a) | Discuss in detail 'Steps of ICH Process'. | 06 |
| | (b) | Describe the structure of ICH. | 05 |
| | (c) | Write Short Notes: (i) Types of IND (ii) Exploratory IND studies. | 05 |
| Q.3 | (a) | Enlist different modes of drug degradation. Discuss chemical pathway of degradation. | 06 |
| | (b) | Describe ICH guidelines for stability testing of new drug substance. | 05 |
| | (c) | Write a note on protocol & documentation of stability study. | 05 |
| Q.4 | (a) | How does bracketing and matrixing is useful in stability study? Give guidelines for the same. | 06 |
| | (b) | Give an account of guidelines for photostability testing of new drug substance. | 05 |
| | (c) | What is shelf life? How does shelf life determination is carried out for a drug? | 05 |
| Q.5 | (a) | What is GLP? Give its scope. Explain the following terms: SOPs, Study Director, Regulatory study, Raw data. | 06 |
| | (b) | Discuss Management's responsibilities in the light of GLP principles. | 05 |
| | (c) | Write an explanatory note on handling and care of animals as per GLP guidelines. | 05 |
| Q. 6 | (a) | Give content of study plan and discuss in brief conduct of study as per GLP regulations. | 06 |
| | (b) | Discuss building and manufacturing facilities for pharmaceuticals. | 05 |
| | (c) | Write a note on : (i) Vendor qualification (ii) Master batch packing formula. | 05 |
| Q.7 | (a) | Discuss in detail process validation as per CGMP | 06 |
| | (b) | Describe Master production and control records in detail | 05 |
| | (c) | Write an explanatory note on responsibilities of Quality control unit | 05 |
