

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.PHARM- SEM-II-EXAMINATION – JULY 2012

Subject code: 2920207

Date: 09/07/2012

Subject Name: Quality Control and Quality Assurance

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.

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|------------|---|-----------|
| Q.1 | (a) Explain the difference between QA and QC activities. | 06 |
| | (b) Describe the objectives and constitution of ICH. | 05 |
| | (c) Describe the different climatic zones as per ICH guideline. What is meant by 'significant change'? | 05 |
| Q.2 | (a) Describe the content of CMC section in NDA submission. | 06 |
| | (b) What is ANDA? How is it different from a NDA? | 05 |
| | (c) Discuss the principles of ICH Good Clinical Practices. | 05 |
| Q.3 | (a) Discuss the role of QA unit in a non-clinical testing laboratory. | 06 |
| | (b) Write briefly the content of a master manufacturing record. | 05 |
| | (c) Describe the responsibilities of personnel working in a pharma manufacturing unit. | 05 |
| Q.4 | (a) What is an investigator brochure? Write briefly its content. | 06 |
| | (b) Write the good practices followed during sampling of raw materials. | 05 |
| | (c) Describe the process and benefits of WHO certification. | 05 |
| Q.5 | (a) What are the different records maintained in a pharmaceutical company? Describe the content of batch packaging record. | 08 |
| | (b) Describe the GMP guidelines for design, construction and location of equipments. | 08 |
| Q.6 | (a) Describe the responsibilities of QC in pharma manufacturing. | 06 |
| | (b) Explain the objectives and scope of GLP guidelines. | 05 |
| | (c) Discuss the role of study director of a non-clinical study. | 05 |
| Q.7 | (a) Explain the terms: (i) SOP (ii) Line clearance (iii) Bioequivalence. | 06 |
| | (b) Describe the testing frequency and storage conditions for long term and accelerated stability studies of a new drug as per ICH. | 05 |
| | (c) Describe the animal care facilities required as per GLP. | 05 |
