

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – II • EXAMINATION – SUMMER • 2015

Subject Code: 2920204**Date: 16-05-2015****Subject Name: Regulatory Affairs and New Drug Application****Time: 10:30 am to 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) | Describe the constitution and functioning of the Pharmacy Council of India and state pharmacy councils. | 06 |
| | (b) | What is meant by Registered pharmacists and what are their privileges and responsibilities? | 05 |
| | (c) | Describe the responsibilities of pharmacist under Consumer Protection Act. | 05 |
| Q.2 | (a) | Describe the quality attributes for any three cosmetics. | 06 |
| | (b) | Write a note on regulatory aspects of herbal products in India. | 05 |
| | (c) | What are the chemical and microbiological aspects of testing safety of herbal products? | 05 |
| Q.3 | (a) | What are the regulations controlling air and water pollution? Describe the standards of effluents permitted in pharmaceutical industry. | 06 |
| | (b) | Describe the main features of Industrial Development & Regulation Act. | 05 |
| | (c) | Describe the licensing procedure for biotechnology derived products in India. | 05 |
| Q.4 | (a) | Name the drug regulatory agencies in India, US, EU and Japan & briefly describe their functioning. | 06 |
| | (b) | Describe the types of DMF and its significance in NDA/ANDA application. | 05 |
| | (c) | Describe the role of Bureau of Indian Standards and ASTM in prescribing and certifying the standards. | 05 |
| Q.5 | (a) | Differentiate between General Monographs and Individual Monograph. Enlist various tests prescribed under drug substance and drug product monographs. | 06 |
| | (b) | Write a note on evolution of Indian Pharmacopoeia. Write the current edition and publisher of Indian Pharmacopoeia. | 05 |
| | (c) | How is manufacture and sales of drugs regulated in India? | 05 |
| Q.6 | (a) | Define the terms: NDA, ANDA, CDER, Exclusivity, Electronic Orange Book, ICH. | 06 |
| | (b) | What is Common Technical Document? Describe five modules thereof. | 05 |
| | (c) | Define New Drug as per Drug & Cosmetics Act. Describe the procedure for new drug approval from CDSCO in India. | 05 |
| Q.7 | (a) | Describe the procedure for new drug approval (NDA) in US. | 06 |
| | (b) | Describe the contents of investigator brochure used in clinical studies. | 05 |
| | (c) | What is meant by reference listed drug product & generic product? Describe how Waxman-Hatch Act has simplified and facilitated approval of generic products in US? | 05 |