

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER-2024****Subject Code: BP804TT****Date: 13/05/2024****Subject Name: Pharmaceutical Regulatory science****Time: 10.30 a.m. to 1.30 p.m.****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 in detail about various phases of drug development. **06**
(b) Discuss briefly about Innovators and Sponsors. **05**
(c) Explain in detail the sources of new drug. **05**
- Q.2** (a) Differentiate INDA and ANDA. Describe various type of INDA. **06**
(b) Explain classification of drugs in NDA. Prepare a NDA chart showing NDA review process. **05**
(c) Explain the concept of paragraph I to IV and generic exclusivity. **05**
- Q.3** (a) Write a note on clinical studies as per CDSCO. **06**
(b) Explain in detail CTD Vs eCTD. Describe various CTD modules. **05**
(c) What is MHRA? Discuss in brief about approval of new drug by MHRA. **05**
- Q.4** (a) Discuss the pharmacovigilance safety monitoring in clinical trials. **06**
(b) What is Post Marketing Surveillance (PMS)? Give it's important in clinical trials. **05**
(c) What is the importance of investigator's brochure? Give a brief outline of clinical research protocols. **05**
- Q.5** (a) Discuss about 21 CFR Part 211 for packaging and labelling requirements of Pharmaceuticals in USA. **06**
(b) What is mean by bioequivalence and explain drug product assessment related to BE. **05**
(c) Discuss the importance of documentation in Pharmaceutical industry. **05**
- Q. 6** (a) Write a note on Hutch Waxman Act and Amendments for generic drugs. **06**
(b) What is DMF? Write a note on Type of DMF. **05**
(c) Write note on Orange book. **05**
- Q.7** (a) Describe Informed Consent process and procedures for clinical trial study. **06**
(b) Discuss special emphasis on approval under 505 (b) (2). **05**
(c) Describe HIPAA-new requirement to clinical study process. **05**
