

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Ph. - SEMESTER-II • EXAMINATION –SUMMER-2018**Subject Code: MPT203T****Date: 18/05/2018****Subject Name: Pharmaceutical Regulatory Affairs****Time: 10:30 am 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) Differentiate between Drug Master File and Master Formula Record. Write a note on Drug Master Formula Record. **06**
(b) Write a short note on batch manufacturing records **05**
(c) Discuss objectives and scope of Documentation. **05**
- Q.2** (a) Write a short note on post marketing surveillance. **06**
(b) Write a note on Hatch Waxman Act and Amendments for generic drugs. **05**
(c) What is meant by bioequivalence and explain drug product assessment related to BE. **05**
- Q.3** (a) Define CTD & eCTD. Explain modules of CTD. **06**
(b) What is CMC? What are the critical elements of CMC? Explain how CMC is specific to product. **05**
(c) Explain the concept of ANDA and ANDA review process. **05**
- Q.4** (a) Differentiate IND and ANDA. Describe various types of IND **06**
(b) Discuss the phases of investigation in context to IND. **05**
(c) Write a note on scale up process for post approval changes with respect to composition and content. **05**
- Q.5** (a) Explain classification of drugs in NDA. Discuss the guidance documents required to prepare NDAs. **06**
(b) Explain the scope of TGA regulations. Discuss the TGA guidelines for OTC product. **05**
(c) Define i) IND (ii) CMC (iii) IND safety reports (iv) IND annual report (v) Institutional review board. **05**
- Q.6** (a) Describe evaluation of the stability data as per ICH guidelines. **06**
(b) What is Data integrity? What are the purpose and guidelines for Data integrity? **05**
(c) Write a note on Investigator Brochure. **05**
- Q.7** (a) Discuss development of clinical trial protocol. **06**
(b) Give an account on FDA guidelines on clinical trials, review and approval of clinical study. **05**
(c) Write short note on Code of Federal regulation. **05**
