

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – WINTER -2019

Subject Code: 2280011**Date: 27-11-2019****Subject Name: Drug Approval Process****Time: 02:30 PM TO 05:30 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) Discuss in brief about various phases of drug development and approval. | 06 |
| | (b) Write note on orange book. | 05 |
| | (c) What is TGA? Discuss structure of TGA. | 05 |
| Q.2 | (a) Explain the approval process of new drug under 505 (b) (2). | 06 |
| | (b) Give overview on freedom of information. | 05 |
| | (c) What is drug master file? Discuss various parts of DMF. | 05 |
| Q.3 | (a) What is NDA? Explain in brief about content and format. | 06 |
| | (b) What is CTD? Explain the modules of CTD. | 05 |
| | (c) Discuss the analytical validation guideline as per ICH. | 05 |
| Q.4 | (a) What is CDSCO? Discuss guideline for form submission under it. | 06 |
| | (b) Write note on inactive ingredient guidelines. | 05 |
| | (c) Discuss registration of USFDA for new drug approval process. | 05 |
| Q.5 | (a) What is SUPAC –IR? Discuss regarding post approval changes in SUPAC- IR. | 06 |
| | (b) Discuss about component and composition of SUPAC –SS. | 05 |
| | (c) Explain registration process of new drug under ANVISA. | 05 |
| Q.6 | (a) Define new drug according to FDA. Explain in detail the new drug development process with the time course for each phase. | 06 |
| | (b) Enlist and explain different types of IND. | 05 |
| | (c) What is MHRA? Discuss aim and objective of MHRA. | 05 |
| Q.7 | (a) Discuss general requirement of NDA. Discuss in brief about provisions of supplement NDA. | 06 |
| | (b) What are Bio – Similar? How approval of bio-similar differs from NDA? | 05 |
| | (c) Discuss regarding guideline for funding research and studies. | 05 |
