

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER- VIII- EXAMINATION – SUMMER-2016

Subject Code:2280011

Date:10/05/2016

Subject Name: Drug Approval Process

Time:10:30am.- 1:30pm.

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)	Define new drug according to FDA. Explain in detail the new drug development process with the time course for each phase.	06
	(b)	Explain in detail the sources of new drug.	05
	(c)	Enlist and explain methods of drug discovery.	05
Q.2	(a)	Define DMF. Enlist and explain types of DMF.	06
	(b)	Write short note on orange book.	05
	(c)	Write short note on inactive ingredient guide and FOI.	05
Q.3	(a)	Explain the concept of para I to IV filing.	06
	(b)	Explain the approval process of new drug under 505 (b) (2).	05
	(c)	What is INDA? Give the contents of investigation broucher of INDA.	05
Q.4	(a)	Define the following: 1. Purple book 2. ICH 3. MCA 4. Biosimilarity 5. WHO 6. MHRA	06
	(b)	Explain registration process of new drug under ANVISA.	05
	(c)	What is TGA? Give the structure of TGA.	05
Q.5	(a)	What is CTD? Write in brief about CTD.	06
	(b)	Write short note on US- FDA.	05
	(c)	Write short note on WHO.	05
Q. 6	(a)	What is SUPAC? Explain the level of changes in SUPAC- MR.	06
	(b)	Guideline for the post approval changes in SUPAC-IR.	05
	(c)	Explain in brief SUPAC-SS.	05
Q.7	(a)	Explain in brief about content and format of NDA.	06
	(b)	Write short note on bio-similarity.	05
	(c)	Enlist and explain different types of IND.	05
