Seat No:	Enrollment No:
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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM.-SEMESTER-VIII- EXAMINATION –SUMMER-2017

Subject Code: 2280008 Date: 09/05/2017

Subject Name: Bio	oavailability &	Therapeutic Drug	g Monitoring
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Time: 10:30 AM to 01:30 PM Total Marks: 80

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(c)

1. Attempt Any five Questions

2. 3.		te Suitable Assumption wherever necessary ares to the right indicate full Marks
Q.1	(a)	Define TDM. Write down Objective & Clinical Application of TDM
	(b)	Write short note on Physico& Chemical Parameter of Drug & body Fluid
	(c)	Describe the objectives of Bioavailability
Q.2	(a)	What are different types OF Study Design? Give detail of Parallel & crossover Study Design
	(b)	Write Target Drug range for TDM

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Q.3	(a)	Enumerate the physical & immunoassay in TDM. Write in detail about ELISA	[6]
	(b)	Write a note on Determination of AUC	[5]

Write down Criteria for Selection of Methods For TDM

(b)	Write a note on Determination of AUC	[5]
(c)	Define terms: 1) Pharmaceutical Equivalent 2) Bioequivalence	[5]

[6][5][5]

[6]

[5]

[5]

Q.4	(a)	Write in Detail about Radioimmunoassay	[6]
	(h)	Evnlain Relative & Absolute Ricavailability	[5]

(b)	Explain Relative & Absolute Bioavailability	[5]
(c)	Write down TDM for Phenytoin	[5]

	(0)	White down 12011 for 1 henytom	[J
Q.5	(a)	Enumerate Different Techniques for Enhancement of Bioavaibility. Discuss any	[6]

	one in detail	
(b)	Write down TDM for Digoxin	[5]

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(c)	Explain Different Methods To assess Bioavailability	[5]

[6]

(b)	Write short note on Invitro-Invivo Correlation	[5]

- (c) Enumerate the different theory of Dissolution. Discuss in detail about Film [5] Theory
- Q.7 (a) Explain in detail about Protocol preparation for Pharmacokinetic Equivalence [6] Study.
 - (b) What is First pass Clearance? How it Will affect Bioavaibility [5]
 - (c) Discuss about Pharmacodynamic Models [5]
