Enrolment No.\_\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY** D. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014

Subject Code: 410005 Date: 02-01-20		Code: 410005 Date: 02-01-2015	
Subject Name: Human Anatomy and Physiology			
Tim	e: 1(	D:30 am - 01:30 pm Total Marks: 80	
Instructions:			
		Attempt any five questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Write characteristics of hormones. Enlist various endocrine glands and their hormonal secretions in the body.	06
	<b>(b)</b>	Draw a labeled diagram of male reproductive system.	05
	(c)	Discuss the anatomy of the urinary system. Write functions of kidney.	05
Q.2	(a)	Draw a labeled diagram of digestive system.	06
	(b)		05
	(c)		05
Q.3	(a)	Give the normal range of heart rate in humans. Enlist the factors affecting heart rate.	06
	(b)		05
	(c)	•	05
0.4	(a)		06
Q.4	(a) (b)		00
	(D) (C)		05
o =			
Q.5	(a)		06
	$(\mathbf{b})$	1	05 05
	(c)	(I) Vital Capacity (II) Color blindness (III) Anaemia	05
		(IV) Hypertension (V) Diabetes	
0 (	(-)		06
Q. 6	(a) (b)	What is reflex action? Write a note one reflex arc. Write in brief the physiology of muscle contraction.	06 05
	(b) (c)		05 05
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<b>Q.7</b>	(a)		08
	(b)	Illustrate the process of hemopoiesis.	08

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