Seat No.:	Enrolment No.
Seal No.	F DECLIMANT INC

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm. – SEMESTER – I • EXAMINATION – WINTER 2013			
Subje	ct Nar : 02.30 ctions:	de: 210001 Date: 06-01-2014 ne: Anatomy Physiology and Health Education - I pm - 05.30 pm Total Marks: tempt any five questions.	: 80
	2. Ma	ake suitable assumptions wherever necessary.  Sures to the right indicate full marks.	
Q.1	(a)	Describe changes during different phases of cell cycle with suitable diagrams.	06
	(b) (c)	Explain mechanism of Blood clotting. Write about the secretions of Pancreas.	05 05
Q.2	(a) (b)	Give a detailed account on: Physiology of muscle contraction.  Write about the development of bone and explain how bone growth is regulated.	06 05
	(c)	Differentiate (i) Cardiac muscles and Skeletal muscles (ii) Active and Passive transport processes.	05
Q.3	(a) (b) (c)	Define Autocoids and explain the role of histamine allergy. Classify Eicosanoids. Write a note on Prostaglandins. Write about composition and function of gastric juice.	06 05 05
Q.4	(a) (b) (c)	Enumerate components of blood. Describe erythropoeisis.  Justify: Mitochondria are energy house of cell whereas lysosomes are suicidal bags.  Write a short note on types of joints.	06 05 05
<b>Q.</b> 5	(a) (b) (c)	Differentiate Epithelial tissues and Connective tissues. Describe in detail the connective tissues. Enlist types of immunity. Explain acquired immunity. Write composition and function of Lymph.	06 05 05
Q. 6	(a) (b) (c)	Draw labeled diagram of digestive system and enumerate function of each labeled parts.  Explain role of leukotrienes in inflammation.  Write a short note on Liver.	06 05 05
<b>Q.</b> 7	(a)	Write biosynthesis of serotonin (5-HT) and action of 5-HT on blood vessels.	06

(b) Explain the terms: Rheumatoid arthritis, panceatitis, Crenation, leucocytosis, roulex formation(c) Enumerate bones of skull.

**05** 

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