Seat No.:	Enrolment No.
Deat 110	Lindinent 110.

## GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2013

	•	ect Code: 210007 Date: 17-05-2013	
	_	ect Name: Human Anatomy Physiology and Health Education-I : 02.30 pm - 05.30 pm Total Marks: 80	
		ctions:	
		<ol> <li>Attempt any five questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
Q.1	(a)	Describe physiology of muscle contraction.	06
	(b)	Explain regulation of gastric secretion and motility.	05
	(c)	Write note on basic physiology and functions of spleen.	05
Q.2	(a)	What is anemia? Explain various anemia in detail.	06
	(b)	Describe life cycle of erythrocytes.	05
	(c)	Define immunity. Describe the role of B-lymphocyte in immunity.	05
Q.3	(a)	Draw labeled diagram of heart and explain conduction of blood in heart.	06
	(b)	Write functions of accessory organs of digestive system.	05
	(c)	Define and classify tissues. Write note on nervous tissue.	05
Q.4	(a)	What is hemostasis? Explain the mechanism of blood clotting.	06
	(b)	Describe the structures and functions of synovial joints.	05
	(c)	What is cardiac output? Describe the factors affecting cardiac output.	05
Q.5	(a)	Classify Leucocyte. Give functions of leucocytes in detail.	06
	(b)	Write note on transcription in protein synthesis.	05
	(c)	Explain following terms: (1) Rheumatoid arthritis (2) Haemophilia (3) Liver cirrhosis (4) Arrhythmia (5) Leukemia	05
Q. 6	(a)	Draw labeled diagram of cell. Describe composition and functions of plasma membrane.	06
	(b)	Write note on blood group and its importance.	05
	(c)	Define Homeostasis. Explain the negative feedback mechanism with example.	05
Q. 7	(a)	Draw labeled diagram of digestive system. Give composition of gastric juice.	06
	(b)	Differentiate: (1) Acquired and innate immunity	05
	( )	(2) Skeletal and cardiac muscles	Λ.=
	(c)	Write note on neuromuscular junction.	05