

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. Semester - IST Examination –July- 2011

Subject code: 210007

Subject Name: Human Anatomy, Physiology Health Education – I

Date:04/07/2011

Time: 10:30 am – 01:30 pm

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 Immunity? Explain the Innate and adaptive Immunity.	06
	(b)	Describe the composition, function and circulation of Lymph	05
	(c)	Describe the structure and functions of Lymph Node	05
Q.2	(a)	With a neat diagram explain the structure and functions of Liver.	06
	(b)	Describe the process of digestion and absorption of carbohydrates, proteins and fats of food.	05
	(c)	Explain in brief the Reticulo-endothelial System	05
Q.3	(a)	Explain the structure and functions of Cell membrane and Nucleus	06
	(b)	Describe the mechanism of protein synthesis by cell Organelles	05
	(c)	Explain the process of “Cell division”	05
Q.4	(a)	Classify Epithelial Tissue? Add a note on Simple Epithelium.	06
	(b)	Explain the Physiology of Muscle contraction	05
	(c)	Write a note on Nervous tissue	05
Q.5	(a)	Classify Joints with example? Add a note on Synovial Joint.	06
	(b)	Describe the development of Bone and Explain how bone growth is regulated.	05
	(c)	Define the following: 1.Osteoporosis 2.Angina Pectoris 3.AIDS 4.Lymphoma 5.Atherosclerosis	05
Q. 6	(a)	Define Blood Pressure? Discuss the factors affecting Blood Pressure.	06
	(b)	Describe the Rennin –Angiotensin System and its Significance	05
	(c)	Write a note on ECG.	05
Q.7	(a)	Define anemia? Discuss the different types of anemia	06
	(b)	Explain the process of Blood coagulation	05
	(c)	Write a note on Blood group and its significance	05
