

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014

Subject Code: 210007

Date: 03-01-2015

Subject Name: Human Anatomy Physiology and Health Education-I

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) Classify tissue. Discuss epithelial tissue in detail.	06
	(b) Draw a labeled diagram of cell.	05
	(c) Discuss process of protein synthesis in detail.	05
Q.2	(a) What is hypertension? Describe methods of measurement of blood pressure.	06
	(b) Draw a labeled diagram of heart.	05
	(c) Write a note on: Anaemia.	05
Q.3	(a) Draw a labeled diagram of neuromuscular junction. Write a detailed note on physiology of muscle contraction.	06
	(b) Enlist different types of joints. Write a note on synovial joints.	05
	(c) Discuss anatomy and physiology of stomach.	05
Q.4	(a) Define hemostasis. Enumerate clotting factors. Draw chart showing process of blood clotting cascade.	06
	(b) Classify WBCs. Explain process of phagocytosis.	05
	(c) Write a note on: Blood group	05
Q.5	Explain following:	16
	(a) Erythropoiesis	(b) All or none law of muscle contraction
	(c) Cardiac output	(d) Adaptive immunity
	(e) Angina pectoris	(f) Osteoporosis
	(g) Synapse	(h) Constipation
Q. 6	(a) Give difference between: (i) Meiosis and Mitosis	06
	(ii) Blood and Lymph	
	(b) Write a note on reticulo-endothelial system.	05
	(c) Discuss the digestion and absorption of nutrients from small intestine.	05
Q.7	(a) Enumerate various transport mechanisms across cell membrane. Write a note on active transport.	06
	(b) Write a note on: Salivary glands	05
	(c) Describe anatomy and physiology of liver.	05
