~ 3.7	
Seat No.:	Enrolment No.
Deal NO	Emoment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - I • EXAMINATION - WINTER • 2014

Subject Code: 210007		ode: 210007 Date: 03-01-2015	
Subje	ect Na	me: Human Anatomy Physiology and Health Education-I	
Time	: 10:3	30 am - 01:30 pm Total Marks: 80	
Instru	ictions		
		ttempt any five questions.	
		Take suitable assumptions wherever necessary. igures to the right indicate full marks.	
	J. F	gures to the right mulcate 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
	(h)	Enlist different types of joints. Write a note on synovial joints.	05
	, ,	Discuss anatomy and physiology of stomach.	05
Q.4	(a)	Define hemostasis. Enumerate clotting factors. Draw chart showing	06
	(b)	process of blood clotting cascade. Classify WBCs. Explain process of phagocytosis.	05
	(c)	Write a note on: Blood group	05
	(•)	who who our brood group	••
Q.5		Explain following:	16
		(a) Erythropoiesis (b) All or none law of muscle contraction	
		(c) Cardiac output (d) Adaptive immunity	
		(e) Angina pectoris(g) Synapse(h) Constipation	
		(g) Synapse (ii) Constipation	
Q. 6	(a)	Give difference between: (i) Meiosis and Mitosis (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.	06
	(b)	Write a note on Solivery glands	05
	(b) (c)	Write a note on: Salivary glands Describe anatomy and physiology of liver.	05 05
	(0)	Describe anatomy and physiology of fiver.	UJ
