Seat No Emonitent No.	Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - I • EXAMINATION - WINTER 2013

Subject Code: 2210004 Date: 06-01-2014

Subject Name: Human Anatomy Physiology

Time: 02.30 pm - 05.30 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)	Draw neat and well labeled diagram of digestive system and give the	06
		functions of digestive system	
	(b)	Explain the life cycle of Red blood cells	05
	(c)	Explain the Cardiac output	05
Q.2	(a)	Write a note on functions of white blood cells	06
_	(b)	Write a note on systemic circulation	05
	(c)	Classify tissues and write a note on nervous tissue	05
Q.3	(a)	What is anemia? Explain the different types of anemia in brief.	06
	(b)	Differentiate skeletal muscle tissue and smooth muscle tissue	05
	(c)	Write a note structure and functions of bone	05
Q.4	(a)	Write a note on blood clotting.	06
_	(b)	Differentiate cell mediated immunity and humoral immunity.	05
	(c)	Write a note on different types of joint	05
Q.5	(a)	Write a note on neuromuscular junction	06
	(b)	Explain cardiac cycle.	05
	(c)	Explain the different phases of gastric acid secretion	05
Q. 6	(a)	Write a note on functions of liver.	06
	(b)	Write a note on salivary glands	05
	(c)	Write a note on different transport mechanisms across cell	05
	(-)	Membrane.	
Q.7	(a)	Describe the mechanism of inflammation	06
	(b)	Discuss composition and functions of lymph	05
	(c)	Write a note on ECG.	05
