G ANI	T 1 (NI
Seat No.:	Enrolment No.

Subject Code: 210001

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Date: 13-06-2014

-	2:30 pr	Anatomy Physiology and Health Education - I m - 05:30 pm Total Marks: 80	
1. 2.	Attem:	pt any five questions. suitable assumptions wherever necessary. es to the right indicate full marks.	
Q.1	(a)	Explain the basic structure of eukaryotic cell with schematic diagram.	06
	(b)	Write a note on nervous tissue with schematic diagram.	05
	(c)	Define the words "anatomy" and "physiology". Add a note on structural and functional organization of various organ systems.	05
Q.2	(a)	Write a note on general functions of blood	06
ζ	(b)	Write a note on blood groups according to ABO system. Explain the term "universal recipient" and "universal donor".	05
	(c)	Explain the mechanism of blood clotting	05
Q.3	(a)	Write a note on epithelial tissue	06
Q.S	(b)	Write a note on mitochondria.	05
	(c)	Describe following terms	05
	()	(i) Leucocytosis	
		(ii) Leukaemia	
		(iii) Leucopenia	
		(iv) Polycythemia	
		(v) Pancytopenia	
Q.4	(a)	Explain the functions of bile juice. Describe the term "Cholecystitis"	06
	(b)	Write a short note on Cell cycle.	05
	(c)	Write in brief about spleen.	05
Q.5	(a)	Write a note on functions of liver	06
•	(b)	Enumerate various anatomical structures of gastro-intestinal tract.	05
	, ,	Explain the functions of stomach.	
	(c)	Write a note on salivary glands.	05
Q. 6	(a)	Explain the term "immunity". Write a note on acquired immunity	06
•	(b)	Write a note on composition and functions of lymph.	05
	(c)	Differentiate various types of muscles.	05
Q.7	(a)	Explain the physiology of muscle contraction with diagram	06
•	(b)	Write a note on synovial joint with diagram	05
	(c)	Write a note on various transport mechanisms across the cell	05
		membrane	
