

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-1 • EXAMINATION – SUMMER -2018

Subject Code: 210007

Date: 08/05/2018

Subject Name: Human Anatomy Physiology And Health Education - I

Time: 02:30 PM TO 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) Classify Epithelial Tissue? Add a note on Simple Epithelium.	06
	(b) Describe mechanism of protein synthesis by cell organelles.	05
	(c) Describe process of digestion and absorption of carbohydrates.	05
Q.2	(a) Classify Joints with example? Add a note on Synovial Joint.	06
	(b) Write on types and functions of WBC.	05
	(c) Describe anatomy and physiology of liver.	05
Q.3	(a) What is anemia? Explain various anemia in detail.	06
	(b) Give the composition and formation of Lymph and discuss its functions.	05
	(c) Write a note on: Blood groups and its significance.	05
Q.4	(a) Draw a labeled diagram of neuromuscular junction. Write a detailed note on physiology of muscle contraction.	06
	(b) Explain regulation of gastric secretion and motility.	05
	(c) Define blood pressure. Explain the role of rennin- angiotensin system in regulation of blood pressure.	05
Q.5	(a) Draw neat and well labeled diagram of heart. Explain in detail the conduction system of heart.	06
	(b) Define immunity. Describe the role of B-lymphocyte in immunity.	05
	(c) Write a short note on ECG.	05
Q. 6	(a) Enumerate clotting factors and explain the clotting process in detail.	06
	(b) What is cardiac output? Describe the factors affecting cardiac output.	05
	(c) Describe composition and process of bone formation.	05
Q.7	(a) Classify transport mechanism across cell membrane. Explain each of them with suitable examples.	06
	(b) Write a note on reticulo-endothelial system.	05
	(c) Draw a labeled diagram of neuron.	05
