

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.

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| 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 |
