

Seat No.: _____

Enrolment No. _____

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**
