

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-1 • EXAMINATION – SUMMER -2018**Subject Code: 2210004****Date: 10/05/2018****Subject Name: Human Anatomy Physiology****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) Define and Explain the Neuromuscular junction with the labeled diagram. **06**
(b) Differentiate Epithelial tissues and Connective tissues. Describe in detail the Connective tissues. **05**
(c) Explain in detail Homeostatic Imbalance of cell division **05**
- Q.2** (a) Classify the Joints with example. Write a note on Synovial Joints with its labeled diagram. **06**
(b) Which are the various phases of cell cycle? Explain the cell growth in detail. **05**
(c) Explain physiology of muscle contraction with special reference to role of Acetylcholine. **05**
- Q.3** (a) Define and classify Allergy. Discuss features of various types of Allergy. **06**
(b) Differentiate Cell mediated immunity and Humeral immunity. **05**
(c) Differentiate Skeletal muscle tissue and Smooth muscle tissue. **05**
- Q.4** (a) Explain Cardiac Cycle in detail. **06**
(b) How does digestion take place in intestine? **05**
(c) Write a short note on physiology of the liver. **05**
- Q.5** (a) Explain the important system which regulating blood pressure in detail. **06**
(b) Explain the following terms **05**
i. Erythrocyte sedimentation rate
ii. Hodgkin's disease
iii. Arthritis
(c) Define Immunity. Differentiate Active and Passive immunity. **05**
- Q.6** (a) Discuss the physiology of skeletal muscle contraction in detail along its Molecular structure. **06**
(b) Discuss the different phases of gastric acid secretion. **05**
(c) Which are the disorders of lymphatic system? Describe any two in detail. **05**
- Q.7** (a) Explain Erythropoiesis process in detail. **06**
(b) Draw neat and labeled diagram of digestive system. Enlist various functions of Saliva. **05**
(c) Classify WBCs. Discuss the various functions of WBCs. **05**
