

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 1 EXAMINATION – WINTER -2019

Subject Code: 2210004**Date: 07-01-2020****Subject Name: Human Anatomy Physiology - I****Time: 10:30 AM TO 01:30 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) What is Homeostasis? Write in detail about Feedback mechanism. **06**
 - (b) Draw a figure of Neuron. Write down various types of neuron. **05**
 - (c) Classify various types of Joints. **05**
- Q.2**
- (a) Short note on Physiology of Muscle contraction. **06**
 - (b) Explain in detail Function of Blood. **05**
 - (c) Define Cardiac output. Write in detail factor affecting cardiac output. **05**
- Q.3**
- (a) Explain in detail Physiology of Digestion and Absorption. **06**
 - (b) Write down the Properties of Cardiac muscle. **05**
 - (c) Discuss in detail about Anemia. **05**
- Q.4**
- (a) Discuss in detail function of Liver. **06**
 - (b) Write a note on Protein Synthesis. **05**
 - (c) Explain in detail Homeostasis of Blood Coagulation. **05**
- Q.5**
- (a) Classify Connective tissue. Write in detail about it. **06**
 - (b) What is Blood Pressure? Write down method for measurement of Blood Pressure. **05**
 - (c) Define Immunity. Differentiate Active and Passive Immunity. **05**
- Q.6**
- (a) What is RAAS? Write in detail Importance of it. **06**
 - (b) Explain in detail Neuromuscular Junction. **05**
 - (c) 1. Comment: Mitochondria is known as Power house of the cell. **05**
2. Differentiate Active and Passive Transport.
- Q.7**
- (a) Explain Structure, Composition and function of Bone. **06**
 - (b) Write in detail about Anatomy and Physiology of Spleen. **05**
 - (c) Define the following term. (Any Five) **05**
 - 1. Osteoarthritis
 - 2. Thalassemia
 - 3. Gastritis
 - 4. Adaptive immunity
 - 5. Synovial joint
 - 6. Congestive heart failure
