

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2014

Subject Code: 2210004

Date: 13-06-2014

Subject Name: Human Anatomy Physiology

Time: 02:30 pm - 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) Explain following diseases: Cardiac arrhythmias, Leukemia, Hypertension. **06**
(b) Discuss composition and function of gastric juice. **05**
(c) Write a note on Nervous tissue. **05**
- Q.2** (a) Enlist different types of immunity. Explain acquired immunity. **06**
(b) Classify transport mechanism across cell membrane. Explain each of them with suitable examples. **05**
(c) What is Blood Pressure? Discuss its significance and methods of measurement. **05**
- Q.3** (a) What are the various phases of Cell cycle? Explain in detail Mitotic phase. **06**
(b) Define anemia? Discuss the different types of anemia. **05**
(c) Draw labeled diagram of digestive system and enumerate functions of each of the labeled parts. **05**
- Q.4** (a) Discuss different types of Synovial joints with appropriate examples for each type. **06**
(b) Explain the process of erythropoiesis and role of erythropoietin. **05**
(c) Write a short note on spleen. **05**
- Q.5** (a) Describe the structure of Cell membrane with appropriate diagram. Give functions of Cell membrane. **06**
(b) Discuss the Renin Angiotensin System. **05**
(c) Write a short note on ECG. **05**
- Q.6** (a) What is blood? Enumerate various components and functions of blood. **06**
(b) Differentiate epithelial tissues and connective tissues. Describe in detail the connective tissues. **05**
(c) Write a note on coronary and pulmonary circulation. **05**
- Q.7** (a) Enumerate various clotting factors and explain in detail mechanism of coagulation. **06**
(b) Explain the Physiology of Muscle contraction. **05**
(c) Write composition and function of Lymph. **05**
