

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem - 1st Regular / Remedial Examination January. 2011

Subject code: 210007

Subject Name: Human Anatomy Physiology and Health Education-I

Date: 03 /01 /2011

Time: 10.30 am – 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 hemostasis? Explain the mechanism of blood clotting. **06**
(b) Explain regulation of gastric secretion and motility. **05**
(c) Define Cardiac cycle. Describe each event in detail. **05**
- Q.2** (a) Write a note on neuromuscular junction. **06**
(b) Explain the life cycle of RBCs in detail. **05**
(c) What is cardiac output? Explain the factors affecting cardiac output. **05**
- Q.3** (a) Give the functions of liver. **06**
(b) Explain Phagocytosis and Inflammation. **05**
(c) Describe following terminologies: **05**
i) Leukemia ii) Constipation iii) ESR iv) Hepatitis v) Chemotaxis
- Q.4** (a) Classify White blood cells (WBCs). Describe the functions of white blood cells. **06**
(b) What is tissue? Classify them and give the brief description about muscular tissue. **05**
(c) Differentiate the following: (I) Active and passive transport **05**
(II) Bone and Cartilage
- Q.5** (a) What is immunity? Describe the role of T-lymphocyte in immunity **06**
(b) Write about composition of bone and functions of skeleton. **05**
(c) Describe properties and functions of lymph. **05**
- Q. 6** (a) Draw the labeled diagram of cell and Write the composition and functions of cell membrane. **06**
(b) What is anemia? Explain various anemias in detail. **05**
(c) Explain the conduction system in heart. **05**
- Q.7** (a) Write short notes on following: (I) Salivary Glands **06**
(II) Spleen
(b) Discuss the digestion and absorption of nutrients from small intestine. **05**
(c) Describe the structures and functions of synovial joints. **05**
