

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-I Examination January 2010

Subject code: 210001

Subject Name: APHE-I

Date: 01 / 01 / 2010

Time: 12.00 – 3.00 pm

Instructions:

Total Marks: 80

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define: Cell. Describe the structure of Cell membrane with appropriate diagram. Give functions of Cell membrane. **06**
(b) Classify WBCs. Discuss functions of WBCs. **05**
(c) Write composition and functions of Lymph. **05**
- Q.2** (a) Define and classify Allergy. Discuss features of various types of Allergy. **06**
(b) Give functions of Liver. **05**
(c) Discuss different types of Synovial joints with appropriate examples for each type. **05**
- Q.3** (a) Differentiate between (i) Active and Passive transport **06**
(ii) Skeletal and Cardiac muscle
(b) Explain mechanism of Blood clotting. **05**
(c) Write about composition of bone and functions of skeleton. **05**
- Q.4** (a) Discuss functions of Blood. **06**
(b) Describe changes during different phases of cell cycle. Draw suitable diagrams. **05**
(c) Classify Eicosanoids. Write a note on Prostaglandins. **05**
- Q.5** (a) Explain “Protein synthesis” with suitable diagrams. **06**
(b) Categorize Immunity. Write about each category. **05**
(c) Describe basic mechanism of Inflammation. **05**
- Q. 6** (a) Give functions of followings: **06**
(i) Mitochondria (ii) Platelets (iii) Gastric juice
(b) Write biosynthesis of Serotonin (5-HT). What are the actions of 5-HT on blood vessels? **05**
(c) Describe structure of Neuron with a labeled diagram. Write about different types of Neuron. **05**
- Q.7** (a) Define the following terms: **06**
(i) Osteoporosis (ii) Inflammation (iii) Hemophilia
(iv) Tissue (v) Lymphosarcoma (iv) Cartilaginous joints
(b) Explain steps of Erythropoiesis. Give normal life span, shape and size of RBC. **05**
(c) Write about secretions of Pancreas. **05**
