

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem - 1<sup>st</sup> 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.**

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|-------------|--|-----------|
| <b>Q.1</b>  | (a) What is hemostasis? Explain the mechanism of blood clotting.   | <b>06</b> |
|             | (b) Explain regulation of gastric secretion and motility.  | <b>05</b> |
|             | (c) Define Cardiac cycle. Describe each event in detail.   | <b>05</b> |
| <b>Q.2</b>  | (a) Write a note on neuromuscular junction.  | <b>06</b> |
|             | (b) Explain the life cycle of RBCs in detail.  | <b>05</b> |
|             | (c) What is cardiac output? Explain the factors affecting cardiac output.                                  | <b>05</b> |
| <b>Q.3</b>  | (a) Give the functions of liver.   | <b>06</b> |
|             | (b) Explain Phagocytosis and Inflammation.   | <b>05</b> |
|             | (c) Describe following terminologies:<br>i) Leukemia ii) Constipation iii) ESR iv) Hepatitis v) Chemotaxis | <b>05</b> |
| <b>Q.4</b>  | (a) Classify White blood cells (WBCs). Describe the functions of white blood cells.                        | <b>06</b> |
|             | (b) What is tissue? Classify them and give the brief description about muscular tissue.                    | <b>05</b> |
|             | (c) Differentiate the following: (I) Active and passive transport<br>(II) Bone and Cartilage               | <b>05</b> |
| <b>Q.5</b>  | (a) What is immunity? Describe the role of T-lymphocyte in immunity  | <b>06</b> |
|             | (b) Write about composition of bone and functions of skeleton.   | <b>05</b> |
|             | (c) Describe properties and functions of lymph.  | <b>05</b> |
| <b>Q. 6</b> | (a) Draw the labeled diagram of cell and Write the composition and functions of cell membrane.             | <b>06</b> |
|             | (b) What is anemia? Explain various anemias in detail.   | <b>05</b> |
|             | (c) Explain the conduction system in heart.  | <b>05</b> |
| <b>Q.7</b>  | (a) Write short notes on following: (I) Salivary Glands<br>(II) Spleen                                     | <b>06</b> |
|             | (b) Discuss the digestion and absorption of nutrients from small intestine.                                | <b>05</b> |
|             | (c) Describe the structures and functions of synovial joints.  | <b>05</b> |

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