

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.

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| 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:
i) Leukemia ii) Constipation iii) ESR iv) Hepatitis v) Chemotaxis | 05 |
| 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
(II) Bone and Cartilage | 05 |
| 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
(II) Spleen | 06 |
| | (b) Discuss the digestion and absorption of nutrients from small intestine. | 05 |
| | (c) Describe the structures and functions of synovial joints. | 05 |
