

GUJARAT TECHNOLOGICAL UNIVERSITY
BPHARM – SEMESTER – I • EXAMINATION – WINTER 2012

Subject code: 2210004**Date: 23-01-2013****Subject Name: Human Anatomy Physiology and Health Education - I****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.

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| Q.1 | (a) Draw the labeled diagram of a cell. Discuss nucleus in detail. | 06 |
| | (b) Describe structure of cell membrane with appropriate diagram, and give functions of cell membrane. | 05 |
| | (c) Write in brief about trans-cellular fluids. | 05 |
| Q.2 | (a) What is tissue? Classify them. Write functions of Muscular tissue. | 06 |
| | (b) Discuss characteristic and function of epithelial tissue. | 05 |
| | (c) Write short note on Vertebral Column. | 05 |
| Q.3 | (a) Classify WBCs and write about its functions. | 06 |
| | (b) Write about functions of blood. | 05 |
| | (c) Describe composition and function of lymph. | 05 |
| Q.4 | (a) Describe essential structure of heart. Ensure your answer includes chambers, valves and vessels. | 06 |
| | (b) Explain regulation of blood pressure. | 05 |
| | (c) Explain in brief about coronary circulation. | 05 |
| Q.5 | (a) Write a note on salivary glands. | 06 |
| | (b) Discuss the digestion and absorption of nutrients from small intestine. | 05 |
| | (c) Write short note on teeth. | 05 |
| Q. 6 | (a) Discuss physiological variations and regulation of blood volume. | 06 |
| | (b) Write short note on spleen. | 05 |
| | (c) Write about various types of movement at joints. | 05 |
| Q. 7 | (a) Explain following diseases in brief. | 06 |
| | I. Hypertension | |
| | II. Anemia | |
| | III. Arthritis | |
| | (b) Comment on, "I can contribute for prevention of Thalassemia". | 05 |
| | (c) Describe phases and regulation of gastric secretion. | 05 |
