

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM- SEM-I-EXAMINATION – JUNE 2012****Subject code: 210007****Date: 23/06/2012****Subject Name: Human Anatomy Physiology & Health Education-I****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) Explain cell cycle in detail. | 06 |
| | (b) Give structure and composition of bone. | 05 |
| | (c) Write a note on Erythropoiesis. | 05 |
| Q.2 | (a) Discuss transport mechanisms across the cell membrane. | 06 |
| | (b) Classify tissues and write a note on them. | 05 |
| | (c) Enlist different types of joints. Write a note on synovial joints. | 05 |
| Q.3 | (a) Explain different types of anaemia. | 06 |
| | (b) Explain mechanisms of blood clot formation. | 05 |
| | (c) Write a note on pulmonary circulation. | 05 |
| Q.4 | (a) Explain generation of action potential at nerve terminal. | 06 |
| | (b) Classify WBCs and write their physiology. | 05 |
| | (c) Write a note on salivary glands. | 05 |
| Q.5 | (a) Explain physiology of liver. | 06 |
| | (b) Write a note on cardiac output. | 05 |
| | (c) Draw a labeled diagram of neuron. | 05 |
| Q.6 | (a) Explain cardiac cycle. | 06 |
| | (b) Describe methods of blood pressure measurement. | 05 |
| | (c) Draw a labeled diagram of internal structure of heart. | 05 |
| Q.7 | (a) Explain different types of allergy. | 06 |
| | (b) Write formation and functions of lymph. | 05 |
| | (c) Write a note on reticulo-endothelial system. | 05 |
