

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

Subject code: 210001**Date: 23-01-2013****Subject Name: Anatomy Physiology & Health Education (APHE-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) Enumerate various processes that transport substances across the plasma membrane. Describe in detail active transport process. | 06 |
| | (b) Enumerate various blood groups and write in detail about common blood types. Explain briefly hemolytic disease of the newborn. | 05 |
| | (c) Write a note on nucleus. | 05 |
| Q.2 | (a) Write a short note on Mitosis. | 06 |
| | (b) What are different types of epithelial tissues and describe them in detail. | 05 |
| | (c) Describe physiology of liver. | 05 |
| Q.3 | (a) Describe in detail chemical digestion in the intestine. | 06 |
| | (b) Explain physiology of muscle contraction. | 05 |
| | (c) Write a note on Synovial joint. | 05 |
| Q.4 | (a) Describe following terminologies:
i) Peptic ulcer disease
ii) Arthritis
iii) Jaundice | 06 |
| | (b) Draw a labeled diagram of neuron. Write briefly about neuromuscular junction. | 05 |
| | (c) Write a note on eicosanoids. | 05 |
| Q.5 | (a) Describe briefly various phases of gastric secretion. | 06 |
| | (b) Explain role of histamine in the inflammation and allergy. | 05 |
| | (c) Describe in detail fate of RBC. | 05 |
| Q. 6 | (a) Describe briefly mechanism of blood clotting. | 06 |
| | (b) Discuss Lymph formation and it's composition. | 05 |
| | (c) Enumerate various types of Anemia. Write in detail any one of them. | 05 |
| Q.7 | (a) | 06 |
| | Explain in detail innate immunity and adaptive immunity. | |
| | (b) Write a note on Reticulo- endothelial system. | 05 |
| | (c) | 05 |
| | Describe anatomy and physiology of the spleen. | |
