

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2014

Subject Code: 210007**Date: 03-01-2015****Subject Name: Human Anatomy Physiology and 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) Classify tissue. Discuss epithelial tissue in detail. | 06 |
| | (b) Draw a labeled diagram of cell. | 05 |
| | (c) Discuss process of protein synthesis in detail. | 05 |
| Q.2 | (a) What is hypertension? Describe methods of measurement of blood pressure. | 06 |
| | (b) Draw a labeled diagram of heart. | 05 |
| | (c) Write a note on: Anaemia. | 05 |
| Q.3 | (a) Draw a labeled diagram of neuromuscular junction. Write a detailed note on physiology of muscle contraction. | 06 |
| | (b) Enlist different types of joints. Write a note on synovial joints. | 05 |
| | (c) Discuss anatomy and physiology of stomach. | 05 |
| Q.4 | (a) Define hemostasis. Enumerate clotting factors. Draw chart showing process of blood clotting cascade. | 06 |
| | (b) Classify WBCs. Explain process of phagocytosis. | 05 |
| | (c) Write a note on: Blood group | 05 |
| Q.5 | Explain following: | 16 |
| | (a) Erythropoiesis | (b) All or none law of muscle contraction |
| | (c) Cardiac output | (d) Adaptive immunity |
| | (e) Angina pectoris | (f) Osteoporosis |
| | (g) Synapse | (h) Constipation |
| Q. 6 | (a) Give difference between: (i) Meiosis and Mitosis | 06 |
| | (ii) Blood and Lymph | |
| | (b) Write a note on reticulo-endothelial system. | 05 |
| | (c) Discuss the digestion and absorption of nutrients from small intestine. | 05 |
| Q.7 | (a) Enumerate various transport mechanisms across cell membrane. | 06 |
| | Write a note on active transport. | |
| | (b) Write a note on: Salivary glands | 05 |
| | (c) Describe anatomy and physiology of liver. | 05 |
