

Seat No.: _____

Enrolment No. _____

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

Subject Code: 210001

Date: 03-01-2015

Subject Name: 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) Write about cell membrane and mitochondria. | 06 |
| | (b) Discuss synovial joints with suitable examples. | 05 |
| | (c) Write a note on haemoglobin. | 05 |
| Q.2 | (a) Describe fully the process of cell division in humans. | 06 |
| | (b) Elaborate completely the muscular tissue. | 05 |
| | (c) Describe anatomy and physiology of stomach. | 05 |
| Q.3 | (a) Explain the process of physiology of muscle contraction. | 06 |
| | (b) Describe properties of skeletal muscles. | 05 |
| | (c) Differentiate between (1) Passive and Active transport.
(2) RBC and WBC | 05 |
| Q.4 | (a) Write about anemia and haemophilia. | 06 |
| | (b) Describe epithelial tissue with its locations. | 05 |
| | (c) Write a note on lymph. | 05 |
| Q.5 | (a) Give brief introduction of inflammation. | 06 |
| | (b) Write a note on bones of skull. | 05 |
| | (c) Describe reticulo-endothelial system. | 05 |
| Q. 6 | (a) Explain mechanism of blood coagulation. Enlist factors involved in this process. | 06 |
| | (b) Write functions of human Liver. | 05 |
| | (c) Explain digestion of food in small intestine. | 05 |
| Q.7 | (a) Define following terms :
1. Physiology 2. Arthritis 3. Hodgkin's disease
4. Anorexia 5. Pinocytosis 6. Transcription | 06 |
| | (b) Discuss structure and functions of spleen. | 05 |
| | (c) Describe synthesis and functions of histamine. | 05 |
