

Seat No.: _____

Enrolment No. _____

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

Subject Code: 210001

Date: 13-06-2014

Subject Name: 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) Explain the basic structure of eukaryotic cell with schematic diagram. | 06 |
| | (b) Write a note on nervous tissue with schematic diagram. | 05 |
| | (c) Define the words “anatomy” and “physiology”. Add a note on structural and functional organization of various organ systems. | 05 |
| Q.2 | (a) Write a note on general functions of blood | 06 |
| | (b) Write a note on blood groups according to ABO system. Explain the term “universal recipient” and “universal donor”. | 05 |
| | (c) Explain the mechanism of blood clotting | 05 |
| Q.3 | (a) Write a note on epithelial tissue | 06 |
| | (b) Write a note on mitochondria. | 05 |
| | (c) Describe following terms | 05 |
| | (i) Leucocytosis | |
| | (ii) Leukaemia | |
| | (iii) Leucopenia | |
| | (iv) Polycythemia | |
| | (v) Pancytopenia | |
| Q.4 | (a) Explain the functions of bile juice. Describe the term “Cholecystitis” | 06 |
| | (b) Write a short note on Cell cycle. | 05 |
| | (c) Write in brief about spleen. | 05 |
| Q.5 | (a) Write a note on functions of liver | 06 |
| | (b) Enumerate various anatomical structures of gastro-intestinal tract. Explain the functions of stomach. | 05 |
| | (c) Write a note on salivary glands. | 05 |
| Q. 6 | (a) Explain the term “immunity”. Write a note on acquired immunity | 06 |
| | (b) Write a note on composition and functions of lymph. | 05 |
| | (c) Differentiate various types of muscles. | 05 |
| Q.7 | (a) Explain the physiology of muscle contraction with diagram | 06 |
| | (b) Write a note on synovial joint with diagram | 05 |
| | (c) Write a note on various transport mechanisms across the cell membrane | 05 |
