

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER • 2015

Subject Code: 2210004

Date: 01-06-2015

Subject Name: Human Anatomy Physiology

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) Define the word Tissue. Write a note on epithelial tissue. | 06 |
| | (b) Write in detail about the different transport mechanisms across cell membrane. | 05 |
| | (c) Draw labelled schematic diagram of eukaryotic cell and explain its organelles in short. | 05 |
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| Q.2 | (a) Write a note on general functions of blood. | 06 |
| | (b) Write a note on blood groups according to ABO system. | 05 |
| | (c) Write a note on Erythropoiesis. | 05 |
| | | |
| Q.3 | (a) Explain the renin angiotensin aldosterone system (RAAS) and explain its significance. | 06 |
| | (b) Write a short note on heart sounds. | 05 |
| | (c) Describe following terms | 05 |
| | (i) Hypertension | |
| | (ii) Leukaemia | |
| | (iii) Posterior | |
| | (iv) Leucopenia | |
| | (v) Lateral | |
| | | |
| Q.4 | (a) Explain the anatomy of the heart with labelled schematic diagram. | 06 |
| | (b) Describe composition and function of lymph. | 05 |
| | (c) Write a short note on cardiac cycle. | 05 |
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| Q.5 | (a) Explain physiology of muscle contraction. | 06 |
| | (b) Enumerate various organs of gastro-intestinal tract. Explain the functions of stomach. | 05 |
| | (c) Write a note on salivary glands. | 05 |
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| Q. 6 | (a) Explain the term “Immunity”. Write a note on acquired immunity. | 06 |
| | (b) Discuss the Anatomy and functions of Liver. | 05 |
| | (c) Define “Blood Pressure”. Discuss its significance and clinical methods of Measurement of blood pressure. | 05 |
| | | |
| Q.7 | (a) Enlist different types of joints. Write a note on synovial joints. | 06 |
| | (b) Write a note on various types of anemia with its management. | 05 |
| | (c) Explain the blood coagulation process. | 05 |
