

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – SUMMER 2013

Subject Code: 2210004**Date: 17-05-2013****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) Draw neat and labeled diagram of cell. Write a note on mediated transport mechanism. | 06 |
| | (b) What is homeostasis? Explain negative feedback system with suitable example. | 05 |
| | (c) Write a note on cell cycle. | 05 |
| Q.2 | (a) Explain physiology of muscle contraction. | 06 |
| | (b) Classify joints. Write a note on synovial joint. | 05 |
| | (c) Enumerate bones of skull. Write a note on arthritis. | 05 |
| Q.3 | (a) Enlist clotting factors and explain clotting mechanism in detail. | 06 |
| | (b) What is blood? Enumerate various components and function of blood. | 05 |
| | (c) Define tissue. Classify them with note on nervous tissue. | 05 |
| Q.4 | (a) Define blood pressure. Enumerate methods for blood pressure measurement and write a note on renin angiotensin system. | 06 |
| | (b) Explain cardiac cycle in detail. | 05 |
| | (c) Explain following terms: | 05 |
| | 1. Cardiac output 02 | |
| | 2. Arrhythmia 02 | |
| | 3. Angina pectoris 01 | |
| Q.5 | (a) Draw neat and labeled diagram of digestive system. Enlist various functions of saliva. | 06 |
| | (b) Define immunity. Differentiate active and passive immunity. | 05 |
| | (c) Explain anatomy and physiology of spleen. | 05 |
| Q.6 | (a) Explain erythropoiesis process in detail. | 06 |
| | (b) Write a note on blood group with its significance. | 05 |
| | (c) Explain functions of Golgi apparatus and mitochondria. | 05 |
| Q.7 | (a) Write a note on liver. | 06 |
| | (b) Draw neat and labeled diagram of heart. | 05 |
| | (c) Give functions of | 05 |
| | 1. Pancreas | |
| | 2. Stomach | |
