

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. SEMESTER– I EXAMINATION SUMMER-2016

Subject Code: 2210004

Date: 30/05/2016

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 Homeostasis. Explain negative feedback system by giving suitable example. | 06 |
| | (b) | Explain in detail cell cycle and its significance. | 05 |
| | (c) | Explain various transport mechanisms across cell membrane. | 05 |
| Q.2 | (a) | Classify Tissues. Explain epithelial tissues in detail. | 06 |
| | (b) | Classify joints. Explain Synovial joint in detail. | 05 |
| | (c) | Explain in brief: Osteoporosis, Arthritis, Gout. | 05 |
| Q.3 | (a) | Explain in detail physiology of muscle contraction. | 06 |
| | (b) | Short note on neuromuscular junction. | 05 |
| | (c) | Explain in brief: Cardiac arrhythmias, Angina pectoris, Congestive Cardiac Failure | 05 |
| Q.4 | (a) | Explain various mechanisms of hemostasis. | 06 |
| | (b) | Short note on spleen. | 05 |
| | (c) | Explain Renin Angiotensin Aldosterone System and its significance. | 05 |
| Q.5 | (a) | Explain Hemopoiesis and life cycle of red blood cell. | 06 |
| | (b) | Short note on Electrocardiogram. | 05 |
| | (c) | Define Cardiac output. Explain various factors affecting cardiac output. | 05 |
| Q. 6 | (a) | Classify Acquired immunity. Explain them in detail. | 06 |
| | (b) | Short note on Salivary Glands. | 05 |
| | (c) | Define Anaemia. Classify it. Explain all classes in brief. | 05 |
| Q.7 | (a) | Explain physiology of Pancreas. | 06 |
| | (b) | Draw a labeled diagram of skull showing all parts of it and explain any two bones of skull. | 05 |
| | (c) | Explain the process of protein synthesis. | 05 |
