

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-1 • EXAMINATION – SUMMER -2018

Subject Code: 2210004**Date: 10/05/2018****Subject Name: Human Anatomy Physiology****Time: 02:30 PM TO 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 and Explain the Neuromuscular junction with the labeled diagram. | 06 |
| | (b) Differentiate Epithelial tissues and Connective tissues. Describe in detail the Connective tissues. | 05 |
| | (c) Explain in detail Homeostatic Imbalance of cell division | 05 |
| Q.2 | (a) Classify the Joints with example. Write a note on Synovial Joints with its labeled diagram. | 06 |
| | (b) Which are the various phases of cell cycle? Explain the cell growth in detail. | 05 |
| | (c) Explain physiology of muscle contraction with special reference to role of Acetylcholine. | 05 |
| Q.3 | (a) Define and classify Allergy. Discuss features of various types of Allergy. | 06 |
| | (b) Differentiate Cell mediated immunity and Humeral immunity. | 05 |
| | (c) Differentiate Skeletal muscle tissue and Smooth muscle tissue. | 05 |
| Q.4 | (a) Explain Cardiac Cycle in detail. | 06 |
| | (b) How does digestion take place in intestine? | 05 |
| | (c) Write a short note on physiology of the liver. | 05 |
| Q.5 | (a) Explain the important system which regulating blood pressure in detail. | 06 |
| | (b) Explain the following terms | 05 |
| | i. Erythrocyte sedimentation rate | |
| | ii. Hodgkin's disease | |
| | iii. Arthritis | |
| | (c) Define Immunity. Differentiate Active and Passive immunity. | 05 |
| Q. 6 | (a) Discuss the physiology of skeletal muscle contraction in detail along its Molecular structure. | 06 |
| | (b) Discuss the different phases of gastric acid secretion. | 05 |
| | (c) Which are the disorders of lymphatic system? Describe any two in detail. | 05 |
| Q.7 | (a) Explain Erythropoiesis process in detail. | 06 |
| | (b) Draw neat and labeled diagram of digestive system. Enlist various functions of Saliva. | 05 |
| | (c) Classify WBCs. Discuss the various functions of WBCs. | 05 |
