

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 1- EXAMINATION –WINTER - 2018

Subject Code:2210004**Date: 09/01/2019****Subject Name: Human Anatomy Physiology****Time:10:30 AM TO 01:30 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) Classify Tissues. Explain Nervous tissue in detail. | 06 |
| | (b) Write a note on Mitochondria. | 05 |
| | (c) Explain ABO system of blood. | 05 |
| Q.2 | (a) Explain in detail the process of “Erythropoiesis” | 06 |
| | (b) Explain cell cycle in brief. | 05 |
| | (c) Differentiate Cellular and Humoral immunity. | 05 |
| Q.3 | (a) Discuss the digestion and absorption of nutrients from small intestine. | 06 |
| | (b) Explain negative feedback system by giving suitable example. | 05 |
| | (c) Explain Renin Angiotensin Aldosterone System and its significance. | 05 |
| Q.4 | (a) Classify joints. Write a note on synovial joint. | 06 |
| | (b) Write a note on Electrocardiogram. | 05 |
| | (c) Write a note on Salivary Glands. | 05 |
| Q.5 | (a) Explain in detail physiology of muscle contraction. | 06 |
| | (b) Explain the physiology of Pancreas. | 05 |
| | (c) Write a note on structure and function of bone. | 05 |
| Q. 6 | (a) What is coagulation of blood? Explain the mechanism of clot formation. | 06 |
| | (b) Classify WBCs and write about its functions. | 05 |
| | (c) Classify Epithelial Tissue? Add a note on Simple Epithelium. | 05 |
| Q.7 | (a) Write composition, function and circulation of Lymph. | 06 |
| | (b) Define anemia? Discuss the different types of anemia. | 05 |
| | (c) Describe the structure and functions of Lymph Node. | 05 |
