

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – SUMMER - 2018

Subject Code: 818801**Date: 18/05/2018****Subject Name: Human Anatomy and Physiology****Time: 10:30 AM TO 01:30 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- | | | |
|------------|--|-----------|
| Q.1 | (a) Explain the blood coagulation process. | 06 |
| | (b) Explain cardiac cycle. | 04 |
| | (c) Draw neat and labeled diagram of mitochondria. Explain mitochondria are power house of cell. | 04 |
| Q.2 | (a) Discuss the synthesis, control & release of Thyroid Hormones. | 06 |
| | (b) Explain anatomy and physiology of spleen. | 04 |
| | (c) Write a note on cerebrum. | 04 |
| Q.3 | (a) Explain the anatomy of heart with labelled schematic diagram. | 06 |
| | (b) Discuss process of nerve action potential generation. | 04 |
| | (c) Write a note on: Cranial nerves. | 04 |
| Q.4 | (a) Draw labeled diagram of digestive system and give functions of saliva. | 06 |
| | (b) Classify Tissues. Explain Nervous tissues in detail. | 04 |
| | (c) Describe Physiology of Hearing and equilibrium. | 04 |
| Q.5 | (a) Write a short note on internal respiration. | 06 |
| | (b) Classify joints and explain synovial joints. | 04 |
| | (c) Explain physiology of muscles contraction. | 04 |
| Q.6 | (a) Enlist hormones of supra-renal gland. Write functions of glucocorticoids. | 06 |
| | (b) Write a note on: Menstrual cycle. | 04 |
| | (c) Draw a labeled diagram of male reproductive system. | 04 |
| Q.7 | (a) Draw a labeled diagram of functional unit of kidney. Explain physiology of urine formation. | 06 |
| | (b) Describe physiological changes that occur during exercise. | 04 |
| | (c) Explain following terms. | 04 |
| | 1. Renal calculi 2. Deafness 3. Asthma 4. Leukemia | |
