

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
PHARM.D – YEAR -1- EXAMINATION –WINTER - 2018

Subject Code:818801

Date: 19/11/2018

Subject Name: Human Anatomy and Physiology

Time:10.30 A.M. TO 1.30 P.M.

Total Marks: 70

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) | Explain the process of erythropoiesis and role of erythropoietin. | 06 |
| | (b) | Explain physiology and functional areas of cerebrum. | 04 |
| | (c) | Explain physiology of muscle contraction with special reference to role of Acetylcholine. | 04 |
| Q.2 | (a) | Draw clean and neat labeled diagram of eye. Explain physiology of vision. | 06 |
| | (b) | Which are the disorders of lymphatic system? Describe any two in detail. | 04 |
| | (c) | Classify joints and explain movements of joints. | 04 |
| Q.3 | (a) | Write a note on menstruation describing various events that occur in uterus and ovaries. | 06 |
| | (b) | Explain in brief: i) Glaucoma ii) Diabetes mellitus iii) Acromegaly iv) SARS | 04 |
| | (c) | Explain digestion of carbohydrates and fat from various parts of gastrointestinal tract. | 04 |
| Q.4 | (a) | Explain Cardiac Cycle in detail. | 06 |
| | (b) | Write short note on spermatogenesis. | 04 |
| | (c) | Explain in brief: i) Hypertension ii) Atherosclerosis iii) Hypoxia iv) Arthritis | 04 |
| Q.5 | (a) | Explain physiology of urine formation with labeled diagram of Nephron. | 06 |
| | (b) | Describe lung function test. | 04 |
| | (c) | Draw clean and neat labeled diagram of cell. | 04 |
| Q. 6 | (a) | Differentiate Epithelial tissues and Connective tissues. Describe in detail the Connective tissues. | 06 |
| | (b) | Write detailed note on reflex activity. | 04 |
| | (c) | Describe physiological changes occur during exercise. | 04 |
| Q.7 | (a) | Name the hormones secreted by pituitary glands. Detail the disorders related to pituitary glands. | 06 |
| | (b) | Explain about contraceptive devices. | 04 |
| | (c) | What is the importance of meninges and CSF ? | 04 |
