

GUJARAT TECHNOLOGICAL UNIVERSITY
Pharm D – 1st Year • EXAMINATION – WINTER - 2019

Subject Code: 818801**Date: 14/11/2019****Subject Name: HUMAN ANATOMY & PHYSIOLOGY****Time: 02:30 PM TO 05:30 PM****Total Marks: 70****Instructions:**

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

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| Q.1 | (a) Draw neat & clean labeled diagram of nephron. Describe functions of kidney. | 06 |
| | (b) Write a short note on physiology of menstrual cycle. | 04 |
| | (c) Write a note Acid-base balance. | 04 |
| Q.2 | (a) Discuss the process of cell division. | 06 |
| | (b) Discuss simple epithelial tissue. | 04 |
| | (c) Explain anatomy & physiology of Lymph node. | 04 |
| Q.3 | (a) Enlist various hormones secreted from Adrenal gland. Discuss physiology of Mineralocorticoid. | 06 |
| | (b) Draw neat & clean labeled diagram of Human ear. | 04 |
| | (c) Enumerate & functions of each Cranial nerves. | 04 |
| Q.4 | (a) Write a note ECG. | 06 |
| | (b) Write a note on Renin Angiotensin System. | 04 |
| | (c) Explain the ABO system of blood group. | 04 |
| Q.5 | (a) Write a note on drugs & athletics. | 06 |
| | (b) Write a note on neuromuscular junction. | 04 |
| | (c) Differentiate Sympathetic & Parasympathetic systems. | 04 |
| Q.6 | (a) Explain physiology of liver. | 06 |
| | (b) Write a note on salivary glands. | 04 |
| | (c) Discuss various types of movements of joints. | 04 |
| Q.7 | (a) Define following terms. | 06 |
| | (i) Rheumatoid arthritis | |
| | (ii) Hemophilia | |
| | (iii) Goitre | |
| | (iv) Diabetes mellitus | |
| | (v) Anemia | |
| | (vi) Atherosclerosis | |
| | (b) Discuss the process of internal respiration. | 04 |
| | (c) Discuss the role of various hormones secreted from anterior pituitary gland. | 04 |
