Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY D.Ph. - I• EXAMINATION – SUMMER-2017

Subject Code: 410005 Date: 05/06/2017 Subject Name: Human Anatomy & Physiology Time: 10:30AM TO 1:30PM **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 Enlist hormones secreted from pituitary gland. Write a note on posterior pituitary gland. 06 (a) Describe physiological actions of glucocorticoids. 05 **(b)** Explain mechanism of skeletal muscle contraction in brief. 05 (c) Describe internal structure of heart with labelled diagram. 06 **Q.2** (a) Write a note on mechanism of blood coagulation. 05 **(b)** Explain composition and functions of blood. 05 (c) 0.3 (a) Draw and label diagram of nephron. Discuss physiology of urine formation. 06 **(b)** Describe functions of hypothalamus and medulla oblongata. 05 **(c)** Write a note on lymph. 05 0.4 (a) Draw and label diagram of cross section of eyeball. Write a note on physiology of vision. **06** Enlist transport mechanism across cell membrane. Discuss active transport. 05 **(b)** Classify different types of joints. Write a note on synovial joint. 05 (c) Explain physiology of liver in detail. Q.5 (a) 06 Write a note on structure and functions of skin. **(b)** 05 05 (c) Draw and label diagram of female reproductive system. Give functions of oestrogen. Q. 6 (a) Draw and label diagram of a cell. Discuss any three cell organelles. 06 Differentiate the following: 05 **(b)** (1) Cardiac muscle and visceral muscle. (2) Artery and vein. Describe cardiac cycle in brief. (c) 05 **Q.7** (a) Define following terms: 06 1. Calculi 2. Peptic ulcer 3. Meningitis 4. Asthma

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Draw a labeled diagram of respiratory system. Write a note on pulmonary circulation.

Write a note on synthesis, storage, transport and functions of thyroid hormones.

6. Congestive cardiac failure

05

05

5. Rheumatoid arthritis

**(b)** 

(c)