

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-I- EXAMINATION – SUMMER-2017

Subject Code: 210001**Date: 08/06/2017****Subject Name: Anatomy, Physiology and Health Education (APHE)****Time: 02:30 PM to 05:30 PM****Total Marks: 80****Instructions:**

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

- Q-1 (a) Explain mechanism of Blood coagulation. (6)
(b) Give functions of following organelles of human cell. (5)
(i) Mitochondria (ii) Lysosome (iii) Centrosome
(iv) Ribosome (v) Golgi body
(c) Explain the following terms: (5)
(i) Arthritis (ii) Anatomy and Physiology
- Q-2 (a) Explain cycle of Cell division (Mitosis) with appropriate diagrams. (6)
(b) Classify autacoids. Give role of Prostaglandins and Leukotrienes (5)
in inflammatory response.
(c) Give functions of Spleen. (5)
- Q-3 (a) Classify and give functions: Epithelial tissue (6)
(b) Give functions of Skeleton. What is Osteoporosis? (5)
(c) Explain structure of neuromuscular junction with labeled diagram. (5)
- Q-4 (a) Draw a labeled diagram of human digestive system. Write about (6)
digestion of proteins.
(b) Explain step by step: Erythropoiesis (formation of RBCs). (5)
(c) Describe structure of Synovial joint with appropriate diagram. (5)
- Q-5 (a) Define and classify Immunity. Write about acquired immunity. (6)
(b) Differentiate amongst Cardiac, Skeletal and Visceral muscle. (5)
(c) Classify White Blood Cells (WBCs). Write their functions. (5)
- Q-6 (a) Discuss: Structure and functions of Cell membrane (6)
(b) Explain physiological actions of Histamine and its involvement in (5)
allergic response.
(c) Write functions of Stomach and Gastric juice. (5)
- Q-7 Write a note on followings: (16)
(a) Lymph, (b) Anaemia,
(c) Respiratory muscles, (d) Functions of Liver
