

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – I • EXAMINATION – WINTER • 2015

Subject Code: 210007

Date: 05-01-2016

Subject Name: Human Anatomy Physiology and Health Education-I

Time: 10:30 am - 01:30 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) Write properties and functions of Red Blood Corpuscles (RBCs). (6)
(b) Give functions of followings: (5)
(i) Epithelial tissue (ii) Mitochondria (iii) Ribosomes
(c) Give composition and functions of Lymph. (5)
- Q-2 (a) Give the role of cardiac junctional tissues in initiation and conduction of impulse throughout the heart with appropriate diagram. (6)
(b) Write functions of Plasma proteins. (5)
(c) Explain structure of synovial joint with labeled diagram. (5)
Name different types of synovial joints.
- Q-3 (a) Explain the following terms: (6)
(i) Arthritis (ii) Cardiac failure (iii) Leukemia
(b) Discuss: Fibrous (immovable) joints (5)
(c) Classify and give examples of Connective tissue. (5)
- Q-4 (a) Write about digestion of carbohydrates. (6)
(b) Describe step by step: Blood coagulation mechanism (5)
(c) Define: Blood pressure. Write about factors controlling it. (5)
- Q-5 (a) Define and classify Immunity. Write about acquired immunity. (6)
(b) Describe structure of Neuron with appropriate diagram. (5)
(c) Write functions of Blood. (5)
- Q-6 (a) Discuss: Structure of cell membrane with suitable diagram. Give functions of cell membrane. (6)
(b) Explain Blood groups and their importance. (5)
(c) Write about Heart rate. (5)
- Q-7 Write a note on followings: (16)
(a) Gastric juice (b) Cell cycle
(c) Reflex action (d) Bone marrow
