

**C.U.SHAH UNIVERSITY****WADHWAN CITY****University (Winter) Examination -2013****Course Name/.B.Pharm Sem-I****Subject Name: - Human Anatomy and Physiology-I****Duration :- 3:00 Hours****Date : 13/1/2014****Marks : 70****Instructions:-**

- (1) Attempt all Questions of both sections in same answer book / Supplementary.
- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4) Draw neat diagrams & figures (If necessary) at right places.
- (5) Assume suitable & Perfect data if needed.

**SECTION-I**

- Q.1 a. Explain the following terms: i. Distal ii. Cervical (2)
- b. Write the Differences between skeletal muscle and smooth muscle. (2)
- c. Draw labeled diagram of cell. (3)
- Q.2 a. Explain about cell cycle and its significance. (5)
- b. Write notes on mitochondria and nucleus (5)
- c. Explain adaptive immunity and innate immunity. (4)

**OR**

- Q.2 a. Give brief account on extracellular fluid and its composition. (5)
- b. Give brief explanation about Pulmonary and Coronary circulation. (5)
- c. Draw label diagram of heart (4)
- Q.3 a. Classify different component of blood and write the function of haemoglobin. (7)
- b. Explain about different phases of gastric secretion. (7)

**OR**

- Q.3 a. Classify blood clotting factors and write the mechanism of blood clotting. (7)
- b. Explain cardiac cycle. (with Cyclic Representation ) (7)

**SECTION-II**

- Q.4 a. Write the functions of Lysosomes & Ribosome, (2)
- b. Write note on gout. (2)
- c. Write the function of Esophageal sphincter. (2)
- d. Define human anatomy. (1)

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- Q.5 a. Write the composition and function of lymph. (5)  
b. Write note on :Gastric Ulcer, SA node (5)  
c. Write the name of taste buds found on tongue and its function. (4)

**OR**

- Q.5 a. Write note on rennin angiotensin system. (5)  
b. Classify Epithelial tissue, Explain Ciliated Epithelial tissue. (5)  
c. Write notes on Blood group (4)

- Q.6 a. Write the anatomy and physiology of stomach with label diagram. (7)  
b. Classify the joints; give brief explanation about hinge joints and ball & socket joint. (7)

**OR**

- Q.6 a. Write the Physiology of Pancreas, liver and gallbladder. (7)  
b. Explain about transport mechanism of cell membrane and draw label diagram of cell membrane (7)



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