

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

**Subject Name: Human Anatomy & Physiology-I**

**Subject Code: 4PS01HAP1**

**Branch: B. Pharm**

**Semester: 1**

**Date: 26/11/2018**

**Time: 02:30 To 05:30**

**Marks: 70**

**Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

|   |  |           |
|---|--|-----------|
| <b>Q-1</b>  | <b>Attempt the following questions:</b>  |           |
|   | (a) Explain the heart sound  | <b>02</b> |
|   | (b) Define Intracellular and extracellular fluid   | <b>02</b> |
|   | (c) Explain osmosis  | <b>02</b> |
|   | (d) Differentiate between skeletal muscle and cardiac muscle   | <b>02</b> |
|   | (e) Explain immunity   | <b>02</b> |
|   | (f) Give composition of blood  | <b>02</b> |
|   | (g) Give the name of heart valves  | <b>02</b> |
| <b>Attempt any four questions from Q-2 to Q-8</b> |  |           |
| <b>Q-2</b>  | <b>Attempt all questions</b>   |           |
|   | (a) What is cell membrane? Draw a well labeled diagram of cell membrane                                | <b>07</b> |
|   | (b) Describe in detail about protein synthesis with significant role of cell organelles                | <b>07</b> |
| <b>Q-3</b>  | <b>Attempt all questions</b>   |           |
|   | (a) Classify nervous system. Differentiate between autonomic nervous system and somatic nervous system | <b>07</b> |
|   | (b) Enlist different types of tissue. Describe in detail about neuron                                  | <b>07</b> |
| <b>Q-4</b>  | <b>Attempt all questions</b>   |           |
|   | (a) Describe in detail about erythropoiesis process  | <b>07</b> |
|   | (b) What is WBC? Classify WBC. Discuss role of WBC   | <b>07</b> |
| <b>Q-5</b>  | <b>Attempt all questions</b>   |           |
|   | (a) Discuss various steps of neuromuscular junction  | <b>07</b> |
|   | (b) Describe in detail about mechanism of muscle contraction   | <b>07</b> |
| <b>Q-6</b>  | <b>Attempt all questions</b>   |           |
|   | (a) Describe in detail about reticulo-endothelial system   | <b>07</b> |
|   | (b) Describe in detail about various types of joint movements  | <b>07</b> |
| <b>Q-7</b>  | <b>Attempt all questions</b>   |           |
|   | (a) What is heart? Draw a well labeled diagram of human heart.   | <b>07</b> |
|   | (b) Give a brief account on cardiac cycle.   | <b>07</b> |
| <b>Q-8</b>  | <b>Attempt all questions</b>   |           |
|   | (a) Describe in detail about various phase of digestion.   | <b>07</b> |
|   | (b) What is pancreas? Draw a well labeled diagram of human digestive system.                           | <b>07</b> |

