

Enrollment No:-\_\_\_\_\_

Exam Seat No:-\_\_\_\_\_

# C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 4PS01HAP1

Subject Name: Human Anatomy & Physiology-I

Course Name: B.Pharm

Date: 7/5/2015

Semester:I

Marks: 70

Time:10:30 TO 01:30

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**Instructions:**

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
  - 2) Use of Programmable calculator & any other electronic instrument 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.
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## SECTION-I

**Q. 1** Attempt the following (**Any Four**) **14**

- (a) Draw a labeled diagram of Cell
- (b) Write a short note on Heart Sounds
- (c) Draw a labeled diagram of Heart
- (d) Differentiate between Mitosis and Meiosis
- (e) Draw a labeled diagram of human digestive system

**Attempt any four from Q-2 to Q-8.**

**Q. 2** Attempt the following

- (a) Describe protein synthesis with respect to role of cell organelles **7**
- (b) Enlist transport mechanism across cell membrane. Give brief about Vesicular transport mechanism **7**

**Q. 3** Attempt the following

- (a) Describe Physiology of muscle contraction **7**
- (b) Write a short note on Neuromuscular junction **7**

**Q. 4** Attempt the following

- (a) Enlist types of blood cells. Write a short note on WBC **7**
- (b) Describe mechanism of blood coagulation **7**

**Q. 5** Attempt the following

- (a) Describe in detail about Cardiac cycle **7**
- (b) Describe in detail about rennin angiotensin aldosterone system **7**

**Q. 6** Attempt the following

- (a) Describe Physiology of Digestion **7**

Page 1 of 2



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7-5

- (b) Describe the structure and function of Liver 7
- Q. 7** Attempt the following
- (a) Enlist types of tissue. Describe in detail about nervous tissue 7
- (b) Describe in detail about types of joint movements 7
- Q. 8** Attempt the following
- (a) Describe anatomy and physiology of spleen 7
- (b) Describe in detail about adaptive immunity 7

