

**F.Y.B.PHARM. SEMESTER-I (CBCS - 2015 COURSE) :**  
**WINTER - 2017**

**SUBJECT: HUMAN ANATOMY & PHYSIOLOGY – I**

Day : Friday  
Date : 17/11/2017

Time : 10.00 AM TO 01.00 PM

**W-2017-3780**

Max. Marks : 60

**N.B.:**

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

**SECTION – I**

- Q.1** Answer **ANY FIVE** of the following: **[10]**
- a) What are Lysosomes? Explain its function.
  - b) Define the terms Anatomy and Physiology.
  - c) Define the terms medial and lateral.
  - d) What are the components of a nerve cell?
  - e) Define congestive heart failure.
  - f) Define homeostasis.
  - g) Write a brief note on adipose tissue.
- Q.2** Explain in detail the cardiac cycle. Add a note on heart sounds. **[10]**
- Q.3**
- a) Explain in detail the types of transport that occur across the plasma membrane. **[06]**
  - b) Differentiate between skeletal, smooth and cardiac muscle tissue. **[04]**
- Q.4** Write short notes on **ANY TWO** of the following: **[10]**
- a) Conduction system of heart
  - b) Formation of lymph
  - c) Cartilages

**SECTION – II**

- Q.5** Answer **ANY FIVE** of the following: **[10]**
- a) Define Anemia and enlist types of anemia.
  - b) Define erythropoiesis.
  - c) What are functions of larynx?
  - d) Write the composition and functions of saliva.
  - e) Define tidal volume and vital capacity.
  - f) Define peptic ulcer and typhoid.
  - g) What is haemolytic disease of new born?
- Q.6** Give functions of blood. Explain in detail platelet plug formation and blood clotting mechanism. **[10]**
- Q.7**
- a) Explain the transport of O<sub>2</sub> and CO<sub>2</sub> in internal and external respiration. **[06]**
  - b) Explain the structure and functions of stomach. **[04]**
- Q.8** Write short notes on **ANY TWO** of the following: **[10]**
- a) Liver
  - b) Structure and functions of lungs
  - c) ABO and Rh Blood grouping

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