

F.Y.B.PHARM. SEMESTER-I (CBCS - 2015 COURSE) : SUMMER
- 2018

SUBJECT: HUMAN ANATOMY & PHYSIOLOGY - I

Day: **Thursday**
Date: **03/05/2018**

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 60

S-2018-3907

N.B.:

- 1) **Q. No. 1 and Q. No. 5** are **COMPULSORY**.
- 2) Attempt any **TWO** questions out of the remaining.
- 3) Figures to the right indicate **FULL** marks.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.
- 5) Draw neat labeled diagram wherever applicable.

SECTION-I

- Q.1** Answer any **FIVE** of the following: (10)
- a) Define the terms posterior, anterior.
 - b) Define the terms sagittal and Mid- sagittal plane.
 - c) Define the terms anatomy, physiology.
 - d) Name the organs of lymphatic system and their functions.
 - e) Explain the characteristics of epithelial tissues. Enlist their types.
 - f) Explain hypertension.
 - g) Explain the structure of artery.
- Q.2** a) Explain in detail the types of movement of materials across plasma membrane. (07)
b) Explain homeostasis giving examples of positive and negative feedback mechanisms. (03)
- Q.3** Explain in detail the cardiac cycle. Add a note on heart sounds. (10)
- Q.4** Write short notes on any **TWO** of the following: (10)
- a) Cartilages
 - b) Lymph node
 - c) ECG

SECTION-II

- Q.5** Answer any **FIVE** of the following: (10)
- a) Define: i) Erythropoeisis ii) Bronchitis
 - b) Write the composition and functions of saliva.
 - c) Draw neat labeled diagram of respiratory system.
 - d) Classify WBC. Enlist their functions.
 - e) Explain the terms gastric ulcer and dysphagia.
 - f) What are the functions of platelets?
 - g) What are plasma proteins?
- Q.6** a) Explain the structure and functions of pancreas. Explain the role of pancreatic enzymes in digestion. (07)
b) Explain the structure of lungs. (03)
- Q.7** Enlist the clotting factors. Discuss in detail the mechanism of blood clotting. (10)
- Q.8** Write short notes on any **TWO** of the following: (10)
- a) RBC
 - b) Composition and functions of gastric juice
 - c) Mechanics of respiration

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