

**F.Y.B.PHARM. SEMESTER-I (2011 COURSE) : WINTER -
2017**

SUBJECT: HUMAN ANATOMY AND PHYSIOLOGY I

Day: Friday
Date: 17/11/2017

W-2017-3810

Time: 10.00 AM TO 01.00 PM
Max. Marks: 80

N.B:

- 1) Q. NO.1 and Q. NO.5 are **COMPULSORY**. Out of the remaining solve **ANY TWO** questions from each section.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answer of both sections should be written in **SEPARATE** answer books.
 - 4) Draw neat labeled diagrams **WHEREVER** necessary.
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SECTION-I

- Q.1** Answer **ANY FIVE** of the following: **(10)**
- a) Define the terms Dorsal and Ventral
 - b) What is transitional epithelium?
 - c) Define anemia. Enlist its types
 - d) Define Hypertension.
 - e) Write a brief note on ribosomes.
 - f) Write a brief note on nerve cell.
- Q2.** a) Explain the events that occur during a cardiac cycle in detail. **(08)**
b) Explain in detail the systemic and pulmonary circulation. **(07)**
- Q3.** a) Explain in detail the properties and fate of RBC. **(08)**
b) Explain in detail the differences between skeletal, smooth and cardiac muscle tissues. **(07)**
- Q4.** Write short notes on **ANY THREE** of the following **(15)**
- a) Plasma
 - b) Blood Groups
 - c) ECG
 - d) Conduction system of heart

SECTION-II

- Q5.** Answer **ANY FIVE** of the following: **(10)**
- a) Define lymph. Write its composition.
 - b) Give the composition and functions of pancreatic juice.
 - c) Define jaundice.
 - d) Define asthma.
 - e) Enumerate the organs of digestive system. Enlist their functions.
 - f) Define Tidal Volume and vital capacity
- Q6.** a) Explain in detail the mechanics of respiration. Add a note on gaseous exchange. **(08)**
b) Explain the anatomy of respiratory system. **(07)**
- Q7.** a) Explain in detail the anatomy and physiology of small intestine. **(08)**
b) Explain the role of accessory organs in digestion of food. **(07)**
- Q8.** Write short notes on **ANY THREE** of the following **(15)**
- a) Lymph node
 - b) Stomach
 - c) Physiology of voice production
 - d) Large intestine