



R-1612030701010300 Seat No. _____

**Masters of Pharmacy Management (Sem. I)
(CBCS) Examination**

January - 2019

Human Anatomy & Physiology-I

Time : 3 Hours]

[Total Marks : 80

Instructions :

1. Answer any three from each section except question 1 and 5 are compulsory.
2. Figure to the right indicates full marks.
3. Draw neat and clean diagram when required.

SECTION - I

- 1 Answer the following questions (ANY SEVEN) **7×2=14**
- (1) Classify connective tissues.
 - (2) Define the following terms :
 - a. Allergy
 - b. Angina
 - (3) Enumerate various accessory organs of digestive system.
 - (4) Explain how Cellular immunity differs from Humoral immunity ?
 - (5) Give the functions of WBCs.
 - (6) Give the functions of Mitochondria.
 - (7) Briefly explain Peptic Ulcers.
 - (8) What is the composition of Blood ?
 - (9) Give significance of ECG.
 - (10) Enlist the properties of skeletal muscles.
- 2 Answer the following questions. **13**
- (A) Enumerate various transport processes across the plasma membrane. Describe in detail about passive transport process. **7**
 - (B) Write a short note on adaptive and acquired immunity. **6**

- 3 Answer the following questions : 13
- (A) Draw the neat and clean diagram of a cell with appropriate labeling. Write a note on functions of Nucleus. 7
- (B) Write a detailed note on various types of epithelial tissues. 6
- 4 Answer the following questions : 13
- (A) Describe in detail about basic life process of living organism. 7
- (B) Define : Anemia. Discuss lifecycle of RBC. 6

SECTION - II

- 5 Answer any TWO questions from the following : 2×7=14
- (A) What is Rh factor in blood groups? Write a detailed note on 'ABO' blood grouping system.
- (B) Explain in detail about cell cycle and its regulation.
- (C) Explain in brief about physiology of muscle contraction with suitable diagram.
- 6 Answer the following questions : 13
- (A) Describe in detail about composition, formation, circulation and functions of lymph. 7
- (B) Describe in detail about cardiac cycle. 6
- 7 Answer the following questions : 13
- (A) Enumerate various organs of digestive tract in descending order. Explain the physiology of gastric acid secretion. 7
- (B) Explain in brief about pancreatic secretion and their role in digestion. 6
- 8 Answer the following questions : 13
- (A) Explain in detail - Type IV immune reaction. 7
- (B) Write a short note on synovial joints. 6