

**B PHARM**  
**(SEM- 1) THEORY EXAMINATION 2018-19**  
**HUMAN ANATOMY AND PHYSIOLOGY**

Time: 3 Hours

Total Marks: 75

**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- a. Explain the term autocrine and juxtacrine signaling.
  - b. Name the gland which secretes wax in the ear.
  - c. What is hemoglobin? What are its normal values in humans and write about its importance in human body?
  - d. What is the difference between endocrine and exocrine gland?
  - e. Define autophagy and autolysis.
  - f. Write any two functions of Ribosome.
  - g. Differentiate between thick and thin filament.
  - h. Name the largest nerve of human body.
  - i. What do you mean by Heart rate?
  - j. Write the primary neurotransmitters of sympathetic and parasympathetic nervous system.

**SECTION B**

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- a. Define Hemostasis. Explain in detail the process of blood coagulation with emphasis on extrinsic and intrinsic pathways along with the clotting factors.
  - b. Discuss about the anatomy and physiology of Eye with diagram.
  - c. Discuss in detail about active transport process across plasma membrane.

**SECTION C**

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- a. What do you mean by anemia? Explain its various types.
  - b. Write an elaborated note on structure and function of plasma membrane.
  - c. Write a short note on cranial nerves with emphasis on their functions.
  - d. Classify joints. Write a short note on synovial joint.
  - e. Write about various events occurs at neuromuscular junction.
  - f. Write a note on cardiac cycle.
  - g. Explain the anatomy and physiology of lymph node.