

**B. PHARM**  
**(SEM-1) THEORY EXAMINATION 2018-19**  
**ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY-I**

*Time: 3 Hours*

*Total Marks: 100*

**SECTION A**

- 1. Attempt *all* questions in brief. 2 x 10 = 20**
- a. Differentiate between active and passive transport.
  - b. What do you mean by muscle fatigue?
  - c. Enlist various body cavities present in human body.
  - d. Draw a neat and clean diagram of neuron.
  - e. What do you mean by catabolism?
  - f. Which organelle is responsible for protein synthesis?
  - g. Classify tissue.
  - h. Write the causative agent of Malaria.
  - i. Enlist functions of proteasomes and peroxisomes.
  - j. Differentiate between thick and thin filament.

**SECTION B**

- 2. Attempt any *three* of the following: 10 x 3 = 30**
- a. Write a detailed note on active transport process across plasma membrane.
  - b. Discuss the physiology of skeletal muscle contraction.
  - c. Discuss resuscitation method in detail.
  - d. Write about sense of smell.
  - e. Write about causative agent, mode of transmission and prevention of Whooping cough.

**SECTION C**

- 3. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Classify epithelial tissue. Give the structural and functional characteristics of epithelial tissue.
  - (b) Draw a neat labeled diagram of cell. Write the structure and function of cell organelles.
- 4. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Classify joints. Discuss in detail about ball and socket joint.
  - (b) Define skeleton system. Write an elaborated note on vertebral column.
- 5. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Define the term family planning. Classify various methods of contraception. Write about tubectomy.
  - (b) Define first aid. Write the first aid treatment of shock.

**6. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) Discuss the mechanism of physiology of vision.
- (b) Write in detail about anatomy and physiology of Ear.

**7. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) Write about causative agent, mode of transmission and prevention of Whooping cough.
- (b) Write a detailed note on diphtheria and measles.