

**B PHARM****(SEM-III) THEORY EXAMINATION 2018-19****ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY-III****Time: 3 Hours****Total Marks: 100****Note: 1.** Attempt all Sections.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

- a. Define chemotaxis.
- b. Define angina. What are its various types?
- c. Write cell derived mediators of inflammation.
- d. Enlist hormones released from pituitary.
- e. Explain the role of Carbonic anhydrase in respiration.
- f. Define the waves of ECG and their significance.
- g. Define hypertrophy and hyperplasia.
- h. Which artery supplies blood to the myocardium?
- i. Define hypoxia and ischemia.
- j. Write a note on Parathormone.

**SECTION B****2. Attempt any three of the following: 10 x 3 = 30**

- a. Discuss the process of gaseous exchange in lungs.
- b. Write a detailed note on the anatomy of the heart.
- c. Give a detailed note on menstrual cycle.
- d. Give in detail the biosynthesis, storage and release of thyroid hormones.
- e. Differentiate between apoptosis and necrosis. Write a detailed note on the process of apoptosis.

**SECTION C****3. Attempt any one part of the following: 10 x 1 = 10**

- (a) Draw and explain the components and their functions of the human respiratory system.
- (b) Explain the pathophysiology of Asthma and Emphysema.

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

- (a) Write in detail the pathophysiology of hypertension. Give special emphasis on RAAS in development of hypertension.
- (b) Discuss the mechanism of impulse conduction in heart.

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

- (a) Write notes on pathophysiology of AIDS.
- (b) Explain the physiology of Oogenesis and spermatogenesis.

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

- (a) Write a note on the physiological actions of hormones released from hypothalamus
- (b) Write in detail the pathophysiology of Diabetes mellitus.

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

- (a) Write a detailed note on ischemia reperfusion injury.
- (b) Define inflammation. Explain the various events occurring during inflammation.