

**B PHARM****(SEM -III) THEORY EXAMINATION 2018-19****ANATOMY PHYSIOLOGY AND PATHOPHYSIOLOGY-III***Time: 3 Hours**Total Marks: 70***Note: 1.** Attempt all Sections.**SECTION A**

- 1. Attempt *all* questions in brief. 2 x 7 = 14**
- a. Define tidal volume.
  - b. Name the largest endocrine gland.
  - c. Define chemotaxis.
  - d. Enlist various waves of ECG.
  - e. Give the functions of Leydig's cells and Sertoli cells.
  - f. What is cretinism?
  - g. Define the term metaplasia.

**SECTION B**

- 2. Attempt any *three* of the following: 7 x 3 = 21**
- a. Explain the structure and function of lungs.
  - b. Write short note on plasma and cell derived inflammatory mediators.
  - c. Write short note on cardiac cycle & cardiac output.
  - d. Describe the process of spermatogenesis and Oogenesis.
  - e. Write short note on diabetes mellitus.

**SECTION C**

- 3. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Explain the pathophysiology of Asthma.
  - (b) Discuss the pathogenesis of emphysema.
- 4. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Explain the pathophysiology of hypertension.
  - (b) Write a detailed note on arteriosclerosis and myocardial infarction.
- 5. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Explain the process of menstruation.
  - (b) Discuss the structure and functions of testis.
- 6. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Explain the mechanisms of hormone regulation.
  - (b) Write short note on Grave's disease.
- 7. Attempt any *one* part of the following: 7 x 1 = 7**
- (a) Define cell injury. Explain the mechanism of reversible cell injury.
  - (b) Explain the pathophysiology of neoplasm.