

B. Pharma.**(SEM. IV) THEORY EXAMINATION, 2017-18
ANATOMY, PHYSIOLOGY AND PATHOPHYSIOLOGY- IV****Time: 3 Hours****Total Marks: 100****Note:** Attempt all Sections.**SECTION- A**

- 1. Attempt *all* questions in brief. 2 x10 = 20**
- a. Define stroke volume and cardiac output.
 - b. List out the various respiratory muscles.
 - c. Write the role of blood cells in repair mechanism.
 - d. Give the definition of aplasia, metaplasia & dysplasia
 - e. Define inflammation.
 - f. Explain ECG recording with a neat diagram.
 - g. Write four clinical symptoms of ischemic heart disease.
 - h. Write the causes and symptoms of pneumonia.
 - i. Write the mediators of inflammation.
 - j. Define hypertension and its causes.

SECTION- B

- 2. Attempt any *three* of the following: 10 x 3 = 30**
- a. What is cellular adaptation? Explain hypertrophy and hyperplasia with the help of examples.
 - b. Discuss briefly the pathophysiology of asthma and tuberculosis.
 - c. Discuss the pathophysiology of Congestive heart failure and AIDS.
 - b. What is inflammation? Discuss various events involved in acute inflammation.
 - e. With the help of diagram, explain the conducting system of heart.

SECTION- C

3. What is cell injury? Discuss pathogenesis of hypoxic injury and free radical mediated cell injury. 10x1=10
4. Explain the mechanism and regulation of respiration. 10x1=10
5. Draw a neat-labeled diagram, showing various parts of respiratory system. Mention functions of each part. 10x1=10
6. Discuss the pathophysiology of the following diseases (**any two**) 5x2=10
 - (a) Epilepsy
 - (b) Glaucoma
 - (c) Anaemia
7. What is Alzheimer's disease? What are its symptoms? Discuss its pathogenesis. 10x1=10