

**B PHARM**  
**(SEM-II) THEORY EXAMINATION 2019-20**  
**HUMAN ANATOMY AND PATHOPHYSIOLOGY-II**

**Time: 3 Hours****Total Marks: 75**

**Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.  
 2. Any special paper specific instruction.

**SECTION A**

**1. Attempt all questions in brief. 10 x 2 = 20**

- a. What is an action potential
- b. What are the name of lobes of cerebral hemisphere
- c. What is the role of the mouth in digestive system
- d. Differentiate between vital capacity and total lung capacity.
- e. Define Glomerular Filtration Rate (GFR).
- f. Give the name of disorders of the male reproductive system.
- g. Define asthma and Pneumonia.
- h. Enlist the function of hormones.
- i. Briefly explain cushing syndrome.
- j. Where does the fertilization take place in the female?

**SECTION B**

**2. Attempt any two parts of the following: 2 x 10 = 20**

- a. I. Describe cerebrospinal fluid and its circulation  
 II. Describe the structure and functions of medulla oblongata.
- b. Define ovulation. Explain different phases of the female reproductive cycle
- c. Describe the mechanism of ATP Formation.

**SECTION C**

**3. Attempt any five parts of the following: 7 x 5 = 35**

- a. Explain the events of signal transmission at a chemical synapse.
- b. Describe the surface anatomy of lungs along with suitable diagrams.
- c. Describe the hormones of Pancreas and their physiological role.
- d. Describe different parts and types of Nephron.
- e. What is BMR and how it is determined? Describe various factors affecting BMR.
- f. Write a short note on gland of Emergency.
- g. Define Genetics. Write a short note on chromosomes.