

**B.PHARM**  
**(SEM-II) THEORY EXAMINATION 2018-19**  
**HUMAN ANATOMY AND PHYSIOLOGY-II**

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If you require any missing data, choose suitably.

**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- a. What do you mean by residual volume and inspiratory reserve volume?
  - b. Define autocrine and paracrine gland.
  - c. Explain the role of CCK and secretin in intestinal phase of digestion.
  - d. Discuss any two functions of cerebellum.
  - e. Define net filtration pressure.
  - f. Write in brief about brush border enzyme.
  - g. Thyroxin hormone is released by \_\_\_\_\_ cells of \_\_\_\_\_ gland.
  - h. Mention any two functions of hypothalamus.
  - i. What do you mean by gametogenesis?
  - j. The two hemisphere of cerebrum are connected with a mass of white fibers known as \_\_\_\_\_.

**SECTION B**

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- a. Explain mechanism of respiration with special emphasis on transport of oxygen from lungs to other parts of body.
  - b. What are the different parts of human brain? Discuss anatomy and physiology of cerebrum.
  - c. Outline various parts of digestive system. Discuss the anatomy and physiology of small intestine.

**SECTION C**

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- a. Discuss the mechanism of Neurohumoral transmission in CNS.
  - b. Discuss synthesis, secretion and regulation of acid secretion in stomach.
  - c. Write a note on female reproductive cycle (menstrual cycle) & its regulation.
  - d. Explain synthesis, storage, secretion and regulation of thyroid hormone.
  - e. Discuss in detail about structure of liver and role of bile juice in digestion.
  - f. Discuss in detail about Renin Angiotensin Aldosterone System.
  - g. Define reflex action. Describe various components of reflex arc.