

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.