

B. PHARM
(SEM II) THEORY EXAMINATION 2022-23
HUMAN ANATOMY AND PHYSIOLOGY-II

Total Marks: 75

Time: 3 Hours

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

10 x 2 = 20

SECTION A

1. Attempt all questions in brief.

- (a) What do you mean by synapse?
- (b) Sequentially enlist different layers of meninges.
- (c) Discuss about brush border enzyme.
- (d) Outline the process of digestion.
- (e) Define vital capacity.
- (f) Determine net filtration pressure.
- (g) Recall any two functions of thyroid gland.
- (h) Differentiate between exocrine and endocrine glands.
- (i) Define spermatogenesis and oogenesis.
- (j) Explain importance of pineal gland.

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

- (a) Explain anatomy of spinal cord with the help of a diagram.
- (b) Outline the physical characteristics and composition of normal urine. Discuss the physiology of urine formation.
- (c) Explain anatomy and physiology of female reproductive system.

SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

- (a) Categorize different parts of the brain. Explain structure of cerebrum and its functional organization.
- (b) Summarize various parts of digestive system and discuss anatomy and physiology of small intestine with structure of microvilli.
- (c) Explain various steps of neurohumoral transmission.
- (d) Explore mechanism of respiration with special emphasis on external and internal respiration.
- (e) Discuss structure of pituitary gland and explain functions of various hormones secreted from pituitary gland.
- (f) Elaborate digestion of carbohydrate, protein and lipid in human body.
- (g) Outline the various phases of pregnancy with detailed explanation on fertilization.