

FACULTY OF PHARMACY
Pharm. D (6 YDC) I-Year (Main) Examination, July 2017**Subject : Human Anatomy and Physiology****Time : 3 Hours****Max. Marks: 70****Note: Answer all questions from Part - A and answer any five questions from Part-B.****PART – A (10 x 2 = 20 Marks)**

- 1 What is reflex and reflex arc?
- 2 What are the functions of skin?
- 3 Define peptic ulcer and gastritis.
- 4 Write a note on heart valves.
- 5 Give the composition of blood and lymph.
- 6 Define the terms action potential and membrane potential.
- 7 List out the bones of orbit.
- 8 Discuss transcytosis with example.
- 9 Write a note on posterior pituitary gland secretion and its functions.
- 10 Explain symport and antiport with examples.

PART – B (5 x 10 = 50 Marks)

- 11 (a) Classify muscular tissue. Describe the anatomical features of skeletal muscle tissue.
(b) Write a note on sliding mechanism of skeletal muscle contraction.
- 12 (a) Enumerate the events of cardiac cycle.
(b) Write a note on pulmonary circulation.
- 13 (a) Describe the structure of kidney with a neat labeled diagram.
(b) Explain the physiology of urine formation.
- 14 (a) Describe the events of clotting mechanism.
(b) Write a note on skeletal muscle pump and respiratory pumps.
- 15 (a) Describe the structure and functions of cerebral hemispheres with a neat labeled diagram.
(b) Give a note on basal ganglia.
- 16 (a) Describe the anatomical features of GIT with a neat labeled diagram.
(b) Write a note on salivary glands and taste buds.
- 17 (a) Discuss in detail about the synthesis, storage, transportation, and functions of thyroid gland.
(b) Write a note on lung volumes and lung capacities.
- 18 Write a note on :
(a) Oogenesis
(b) Physiology of menstruation
