

FACULTY OF PHARMACY

B. Pharmacy I-Semester (PCI) (Main & Backlog) Examination, January 2019

Subject : Human Anatomy and Physiology – I

Time : 3 Hours

Max. Marks: 75

Note: Answer all questions from Part – A, any two questions from Part – B and any five question from Part – C.

PART – A (10x2=20 Marks)

- 1 Define Homeostatis and Hemopoeisis.
- 2 Define Signal transduction in cell communication.
- 3 Define neuromuscular junction and write its significance.
- 4 Describe Axial skeleton and list out the bones of skull.
- 5 Draw a neat labeled diagram of lymph node.
- 6 What is the role of Rh factor in blood groups?
- 7 Define ganglion and write its function.
- 8 Name the valves of heart and write their location in heart.
- 9 What is the role of Renin in regulation of blood pressure?
- 10 Define (a) Hypertension and (b) Glaucoma

PART – B (2x10=20 Marks)

- 11 Classify peripheral nervous system and explain structure and function of parasympathetic system.
- 12 Define and classify tissues and explain different types of connective tissues with neat labeled diagrams.
- 13 Define transportation in cell and explain active and passive transport across the plasma membrane.

PART – C (7x5=35 Marks)

- 14 Define cell signaling and explain intracellular signaling processes.
- 15 Explain structure and functions of following bones:
(i) Scapula (b) Humerus
- 16 Define and classify joints and explain different types of synovial joints with examples.
- 17 Write the composition and functions of blood.
- 18 Write a note on lymphatic circulation.
- 19 Write the structure and functions of taste bud.
- 20 Write the differences between sympathetic and parasympathetic nervous system.
- 21 Explain the physiology of olfaction.
- 22 Describe the elements of conduction system of heart.
