

FACULTY OF PHARMACY

B. Pharmacy I - Semester (PCI) (Main & Backlog) Examination, March 2024
Subject: Human Anatomy and Physiology – I

Time: 3 Hours

Max. Marks: 75

PART – A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Name the valves of the heart and write their location in the heart.
2. Define (a) Homeostasis (b) Hemopoiesis
3. Explain neuromuscular junction.
4. Write the composition of blood.
4. Define ganglion and write its function.
5. Explain the terms (a) Active transport and (b) Passive transport.
6. Define the following terms-myocardial infarction and angina pectoris.
7. Write the functions of the thymus gland.
8. List out the bones in the lower limb.
9. Mention the composition of lymph.
10. Write the functions of the nucleus.

PART – B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Define clot. Explain various pathways in the process of blood clotting.
12. Describe the structure of the ear. Explain the physiology of hearing.
13. Describe organization of skeletal muscles and explain physiology of muscle contraction.

PART – C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

14. Explain the structure and functions of the following bones- (a) Scapula (b) Femur.
15. Describe the structure and functions of platelets.
16. Explain in detail the structure and functions of the plasma membrane with a neat labelled diagram.
17. What is a Joint? Explain different types of synovial joints with examples
18. Classify different types of connective tissues and write their functions.
19. Define anaemia and explain different types of anaemia.
20. Define coagulation and explain the coagulation mechanism.
21. Describe the elements of the conduction system of the heart.
22. Explain the structure and functions of the following bones- (a) Scapula (b) Humerus.
