

Examination: **Bachelor of Pharmacy First Year First Semester Exam 2024**
Subject: **HUMAN ANATOMY AND PHYSIOLOGY-I**
Ref. No.: **Ex/BP101/T/2024**
Time: 03 hrs Full Marks: 75

Answer all the questions

Section A (25 marks)

Q1) With an appropriate diagram write down the different cell organelles and their function. (10)

Or

Write down the function of cell membrane protein.

Q2) Write notes on (**any one**) (10)

a) Erythropoiesis

b) Intercellular communication

Q3) Write the function and different types of haemoglobin (5)

Section B (25 marks)

Q4) Explain types and reason for different heart sounds (6)

Q5) Draw and label internal structures of human heart (7)

Q6) Explain the short term control of blood pressure. (6)

Q7) Write short notes on a) Shock b) Atheroma. (6)

Section C (25 marks)

Q8) Answer **any two** of the following: (7.5+7.5=15)

a) Discuss briefly the physiology of skeletal muscle contraction.

b) Explain the structure of a sarcomere with help of a diagram

c) Explain the different types of proteins present in a myofibril.

Q9) Discuss briefly the different layers of epidermis. What are the different types of skin glands?

Explain the different parts of dermis. (5+2+3=10)