

Examination: Bachelor of Pharmacy First Year First Semester Exam 2023
Subject: **HUMAN ANATOMY AND PHYSIOLOGY-I**
Ref. No.: **Ex/BP101/T/2023**
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. (10)

Or

Write down the function of membrane protein.

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

a) Function of blood

b) Intercellular connection

Q3) Define the term- Receptor, cell proliferation and differentiation. (5)

Section B (25 marks)

Q4) Draw a labelled diagram of the internal structures of human heart? (6)

Q5) Neatly provide a schematic diagram of Cardiac Cycle. (6)

Q6) Explain the following: (7)

a) How 4 heart sounds are produced?

b) Mention the details of Coronary blood supply.

Q7) With the help of a schematic diagram explain Division of Nervous system and Role of Nerve Plexus. (6)

Section C (25 marks)

Q8) Answer **any one** of the following: (10)

a) Discuss briefly the physiology of skeletal muscle contraction.

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

Q9) Discuss briefly the different layers of epidermis. What are the different types of skin glands? Discuss briefly the functions of different types of skin glands. (5+5+5)