Roll No.....

Total No. of Questions : 10] **Paper ID [PH125]** [Total No. of Pages : 02

(Please fill this Paper ID in OMR Sheet)

B.Pharmacy (Semester - 2nd)

ANATOMY, PHYSIOLOGY & HEALTH EDUCATION (APHE) - I
(PHM - 1.2.5)

Time : 03 Hours **Maximum Marks : 80**

Instruction to Candidates:

1) Section - A is **compulsory.**
2) Attempt any **Four** questions from Section - B.
3) Attempt any **Three** questions from Section - C.

Section - A

Q1) *(15 × 2 = 30)*

a) Skeletal and smooth muscles.

b) Rough and smooth endoplasmic reticulum.

c) Carpels and tarsels.

d) Nervous and connective tissue.

e) Cardiac and smooth muscles.

f) How many phalanges are there in human left hand?

g) Differentiate between long bones and short bones.

h) What are the various functions of blood?

i) Write a short note on heart sounds.

j) Give the various properties of Cardiac muscle.

k) What is the composition of lymph?

l) List the various types of epithelial tissue.

m) Give the structure and functions of cartilage.

n) Describe the various functions of lysosomes.

o) Compare the scapula and the clavicle.

Section - B

(4 × 5 = 20)

Q2) Describe the structure of a neuron. Write the mechanism of nerve impulse conduction.

Q3) What does the electrocardiogram signify? Write the principles of vectorial analysis of ECG. Also describe the various kinds of electrocardiographic leads.

Q4) What do you mean by venous return? Discuss the various factors that determine the venous return.

Q5) Describe the various bones of the pectoral girdle with the help of neat well labelled diagrams.

Q6) Elaborate the anatomy and the physiology of the lymphatic system.

Section - C

(3× 10 = 30)

Q7) Define blood pressure. How is it measured? List the various factors that modify the blood pressure.

Q8) Enumerate the various clotting factors. How is haemophilia caused?

Q9) Describe the various vertebrae with the help of well labelled diagrams.

Q10) Discuss the pathophysiology of :

(a) Congestive heart failure.

(b) Cardiac arrythmias.