

Roll No.....6004250021

Total No. of Questions : 10]

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J-1692[6527 A] [2957]

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) Yellow and white fibrous connective tissue.
- b) Blood and lymph.
- c) Axon and dendrites.
- d) Cartilage and bone.
- e) Tendon and ligament.
- f) How many bones are present in the human skeleton.
- g) How many types of vertebrae are there in the vertebral column? Name and give the numbers of each.
- h) What are the functions of lymph?
- i) What do you mean by ECG?
- j) Give the various properties of the skeletal muscle?
- k) Describe the composition of blood.
- l) What do you mean by synovial fluid?
- m) Explain the structure and functions of a neuron.
- n) What are golgi bodies?
- o) Give the various functions of the plasma membrane.

P.T.O.

Section - B

(4 × 5 = 20)

- Q2) Give the energetics of muscle contraction. Write a short note on the anatomy and physiology of skeletal muscle.
- Q3) What do you mean by cardiac arrhythmias? Discuss the various types of cardiac arrhythmias.
- Q4) Define cardiac output. Discuss the various factors that affect the cardiac output.
- Q5) Describe the various bones of the pelvic girder with the help of a diagram.
- Q6) Describe the process of erythropoiesis.

Section - C

(3 × 10 = 30)

- Q7) Explain the anatomy and the physiology of human heart with the help of a well labelled diagram. Describe the cardiac cycle.
- Q8) Briefly describe the mechanism of blood coagulation w.r.t. both the intrinsic and the extrinsic pathway.
- Q9) Describe the structure of spleen. Also explain its various functions.
- Q10) Describe the bones of the upper limb and the lower limb with the help of neat well labelled diagrams.

