12 Papers

Roll No.....

Total No. of Questions : 10]

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PHM–1.2.5

ANATOMY PHYSIOLOGY AND HEALTH EDUCATION–I

(B.Pharmacy, 2nd Semester, 2054)

Time : 3 Hours Maximum Marks : 80

Note :– Section A is compulsory. Attempt any *Four* questions from Section B and any *Three* questions from Section C. Illustrates your answers with suitable examples and diagrams.

Section–A Marks : 2 Each

1. (a) Lipid bilayer of the cell membrane contain ..... and ..... .

   (b) Differentiate between Rheumatoid-arithritis and osteoarithritis.

(c) What is a Ball and Socket Joint ? Give *two* examples.

(d) Enlist various bones of the upper limb.

(e) What is Erythroblastosis Foetalis ?

(f) Define the terms :

(i) Polycythemia

(ii) Hemophilia

(g) Differentiate between a sensory nerve and a motor nerve.

(h) What are Flexion and Extension movements ?

(i) Baroreceptors are mainly present in ..... and ..... .

(j) Write exact location of human heart.

(k) What do you mean by Isotonic and Isometric contractions ?

(l) Define :

(i) Muscle Tone

(ii) Muscle Fatigue

(m) The cell membrane consist of 3 types of Proteins. What are those ?

(n) ..... is the neurotransmitter, releases at Neuromuscular-junction and ..... is the enzyme that metabolises this neurotransmitter.

(o) What do you understand by the terms :

(i) Essential Hypertension

(ii) Secondary Hypertension ?

Section–B Marks : 5 Each

2. Write a note on Neuromuscular Junction.

3. Explain structural features of a Synovial Joint.

4. Describe structure and function of mitochondria.

5. Explain various blood groups and their significance.

6. Write a note on Cardiac Tissue.

Section–C Marks : 10 Each

7. Draw neat and labelled diagram of internal structure of Heart. Explain various junctional tissues of the heart.

8. Explain various events of skeletal-muscle contraction. Draw a relevant figure also.

9. Classify various blood cells and explain functions of blood in detail.

10. Explain various components of Connective - Tissue.