Roll No.....

Total No. of Questions : 10]

[Total No. of Printed Pages : 3

1.2.5

Anatomy, Physiology & Health Education—I

(B. Pharmacy, 2nd Semester, 2063)

Time : 3 Hours] [Maximum Marks : 80

Note :– Section A is compulsory. Attempt *Four* questions from Section B and any *Three* questions from Section C.

Section–A

Marks : 30

1. (a) What function does lysosomes play in cell ?

   (b) What do you mean by humoral immunity ?

   (c) Explain the phenomenon of 'summation' in muscle contraction.

   (d) What are A bands and I bands in a striated muscle ?

   (e) Which proteins absorb and transport iron for RBC formation ?

   (f) What are cordea tendinae ?

   (g) What is Fibrillation ?

(h) Define the term 'Stroke Volume'.

(i) What is isotonic contraction of muscle ?

(j) What is positive chronotropic and positive inotropic effect ?

(k) What are the major components of an atherosclerotic plaque ?

(l) Define 'Prothrombin Time'.

(m) Enlist various types of cells present in bone tissues.

(n) Name major components of alveolar connective tissue.

(o) Why spleen is termed as 'blood bank of the body' ?

Section–B Marks : 5 Each

2. Differentiate between skeletal and smooth muscle.

3. Enlist various types of anaemias.

4. Classify epithelial tissue into its various subtypes.

5. What is Frank-Sterling's Law ? Explain its molecular basis.

6. Discuss the role of baroreceptors in regulation of blood pressure.

Section–C Marks : 10 Each

7. Describe the various parts of specialised conduction tissue of heart.
8. Draw a labelled diagram of T.S. of bone.
9. Discuss different types and functions of T-cells.
10. What is various return ? Enlist various factors that affect various return.