

F-1/2051

2004

5926/MJ

Human Anatomy, Physiology and Pathophysiology

B.Pharmacy Semester-2nd

Time allowed: **3 Hours**

Maximum Marks: **70**

Note: Candidates are required to attempt three questions each from section A and B. Section C is compulsory.

Section A

7×3

- Q1 Discuss free radical and immune system mediated cell injury.
- Q2 How skeletal and smooth muscle contraction takes place.
- Q3 Draw the well labeled diagram of female reproductive system.
- Q4 Discuss the important bones of upper and lower extremities.

Section B

7×3

- Q3 Define Electrocardiogram and also discuss its basic principles.
- Q4 Classify the different types of blood cells and explain the function of each of them.
- Q5 Discuss the pathophysiology of diabetes mellitus.
- Q6 Describe the formation, secretion and regulation of thyroid hormones and also discuss their functions.

Section C

14×2

- Q7 Answer the following questions
- I Define thrombocytopenia.
- II Write the primary role of parathyroid hormone.
- III Define cardiac output.
- IV What do you mean by ischemic heart disease?
- V Discuss the route of blood flow through the circulatory system.
- VI Which hormone secreted by the pituitary gland manages the amount of electrolyte and water in our body?
- VII What is the function of epididymis?
- VIII Define arthritis.
- IX What do you mean by haemostasis?
- X Define leukemia.
- XI Name two hormones secreted by hypothalamus.
- XII Enlist any two RBCs disorders.
- XIII What do you mean by acute inflammation.
- XIV Write types of granulocyte category of WBCs.