

**Instructions:**

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub-questions must be written strictly according to serial order of question paper.
- d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means

**Q1. Long Answer questions**

2 X 10 = 20

- a. Define Thalassemia. enumerate its types. Describe beta thalassemia under following headings.
  - 1) Pathogenesis.
  - 2) Clinical features
  - 3) Lab investigations
- b. Define Thrombosis. Write pathogenesis, morphology and fate of thrombosis.

**Q2. Short Answer Questions**

4 X 5= 20

- a. Pathogenesis and lab diagnosis of Haemophilia.
- b. Pathophysiology of Chemical Mediators of inflammation.
- c. Describe Gangrene, Enumerate its types and morphology with examples.
- d. What is Metastasis? Enumerate the different pathway of metastasis.
- e. Define Multiple myeloma. Write laboratory and other criteria of diagnosis of multiple myeloma.
- f. Define shock describe the aetiopathogenesis of septic shock.

**Q3. Very Short Answer Questions**

1 X 10= 10

- a. Bombay blood group.
- b. Enumerate Peripheral blood finding in CML.
- c. Human leukocyte antigen/Major histocompatibility complex.
- d. Pathogenesis of Dystrophic calcification.
- e. Enumerate four Opportunistic infections associated with AIDS.
- f. Enumerate Types of necrosis with one example.
- g. Enumerate Therapeutic uses of stem cells.
- h. Enumerate Factors affecting wound healing and repair.
- i. Enumerate Oncogenic viruses with examples.
- j. Definitions of Hypertrophy and atrophy with examples.