

**MODEL QUESTION PAPERS****Paper – I: GENERAL PATHOLOGY, PATHOPHYSIOLOGY,  
IMMUNOPATHOLOGY AND CYTOPATHOLOGY**

Time: 3 Hours

Max. Marks: 100

*Instructions: 1) Answer all questions.  
2) Illustrate wherever necessary*

I. Define Apoptosis. Discuss in detail the Pathophysiology, biochemical Features and mechanisms of Apoptosis.

(20 marks)

II Write short notes on:

- a) Complications of cutaneous wound healing
- b) Factor V Leiden
- c) Liquid based cytology
- d) Mechanisms involved in transplant rejection
- e) Oncogenes and associated human tumors
- f) Pathogenesis of Septic shock
- g) Role of Adhesion molecules in inflammatory response
- h) Role of stem cells in tissue homeostasis.

(8x10 = 80 Marks)

**Paper - II: SYSTEMIC PATHOLOGY**

Time: 3 Hours

Max. Marks: 100

*Instructions:*      1) Answer all questions.  
                             2) Illustrate wherever necessary

I. Classify and enumerate different types of vasculitides. Discuss in detail the pathology and laboratory diagnosis of immune mediated vasculitides.

(20marks)

II Write short notes on:

- a) Auto immune hepatitis
- b) Cryptogenic organising pneumonia
- c) Gestational trophoblastic diseases
- d) Intestinal metaplasia
- e) Metaplastic carcinoma of breast
- f) Pathogenesis of type 1 diabetes mellitus
- g) Rapidly progressive glomerulonephritis
- h) Thymomas

(8x10 = 80 Marks)

**Paper – III: HAEMATOLOGY, TRANSFUSION MEDICINE  
(BLOOD BANKING) AND LABORATORY MEDICINE**

Time: 3 Hours

Max. Marks: 100

*Instructions:*            1) Answer all questions.  
                                     2) Illustrate wherever necessary

I     Discuss in detail the various modern laboratory procedures used in the Diagnosis, differential diagnosis and prognosis of acute leukaemias.

(20marks)

II.    Write short notes on:

- a) Acquired Coagulopathies
- b) Alloimmune thrombocytopenia
- c) Biomedical waste disposal in Pathology Lab
- d) Blood components separation and uses
- e) Gel method in blood grouping and cross matching
- f) Hereditary disorders of red cell permeability
- g) Serum transferrin receptor assay
- h) Thermoelastography (T.E.G).

(8x10=80 Marks)

**Paper – IV: RECENT ADVANCES AND APPLIED ASPECTS**

Time: 3 Hours

Max. Marks: 100

*Instructions:* 1) Answer all questions.  
2) Illustrate wherever necessary

- I. Discuss in detail the recent trends in the diagnosis, differential Diagnosis and grading of small round cell tumours.

(20 marks)

- II Write short notes on:

- a) Endometrial intra epithelial neoplasia
- b) Iron induced mucosal pathology of upper G.I tract
- c) Ki 67 index
- d) Male breast carcinogenesis
- e) Patterns of liver infiltration in immunoproliferative disease
- f) Role of TFE3 (transcription factor E3) in PEComa.
- g) Skin biopsy in the diagnosis of peripheral neuropathy
- h) Tissue micro array technology in breast cancer

(8x10 = 80 Marks)