

April-1996

[AK 1171]

**M.D. DEGREE EXAMINATION.**

(Revised Regulations)

**Branch III - Pathology**

**Paper IV - IMMUNOPATHOLOGY HAEMATOLOGY  
PRINCIPLES AND APPLICATION OF TECHNOLOGICAL  
ADVANCES IN LABORATORY SERVICES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the structure and function of major Histocompatibility complex and association between HLA antigen and specific diseases. (25)
2. Discuss the pathology of Myelodysplastic syndrome and its lab diagnosis. (25)
3. Write briefly on : (5 x 10 = 50)
  - (a) Erythrokinetics.
  - (b) Mast cell.
  - (c) Leukocyte function test.
  - (d) Auto immune haemolytic Anaemia.
  - (e) Pre leukemia.

October-1996

PK 117

M.D. DEGREE EXAMINATION

Branch III - Pathology

(Revised Regulations)

Paper IV - IMMUNOPATHOLOGY HAEMATOLOGY  
PRINCIPLES AND APPLICATION OF  
TECHNOLOGICAL ADVANCES IN LABORATORY  
SERVICES

Time: Three hours

Max.marks:100

Answer All Questions

1. Discuss auto immune haemolytic anaemias.
2. Discuss the immunopathology of glomerular diseases.
3. Write briefly on:
  - (a) In situ hybridisation
  - (b) Platelet growth factor
  - (c) Sideroblastic Anaemias
  - (d) DIC
  - (e) Enzyme histochemistry in muscle disorders.

(5x10=50),

April-1997

MP 117

M.D. DEGREE EXAMINATION

Branch III - Pathology

(Revised Regulations)

Paper IV - IMMUNOPATHOLOGY, HAEMATOLOGY  
PRINCIPLES AND APPLICATION OF TECHNOLOGIC  
ADVANCES IN LABORATORY SERVICES

Time: Three hours

Max. marks:100

Answer All Questions

1. Define and classify Myelodysplastic syndromes. Give their laboratory diagnosis and prognosis. (25)
2. Discuss the role of DNA technology in surgical pathology. (25)
3. Write briefly on:
  - (a) Complications of bone marrow transplantation
  - (b) C.S.F. cytology
  - (c) Causes of red cell fragmentation syndrome

Laboratory diagnosis of SLE

Immunophenotyping of acute leukaemia.

(5x10=50)

## M.D. DEGREE EXAMINATION

Branch III-Pathology

(Revised Regulations)

Paper IV - IMMUNOPATHOLOGY, HAEMATOLOGY  
PRINCIPLES AND APPLICATION OF TECHNOLOGICAL  
ADVANCES IN LABORATORY SERVICES

Time: Three hours

Max. marks:100

Answer All Questions

1. Discuss your approaches in establishing the laboratory diagnosis in a patient with disseminated intravascular coagulation. (25)
2. Discuss the immunopathology in various forms of rejection phenomenon in a patient following renal transplantation. (25)
3. Write briefly on:

Polymerase chain reaction

(b) Bromodeoxyuridine uptake and its significance

Haemoglobin electrophoresis in haemoglobinopathies

Epidermal growth factor

Application of immunohistochemical techniques in diagnosis of lymphoma.

(5x10=50)

April-1998

SV 117

M.D. DEGREE EXAMINATION

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PRINCIPLES AND APPLICATION OF  
TECHNOLOGICAL ADVANCES IN LABORATORY  
SERVICES

Time: Three hours

Max.marks:100

Answer All Questions

1. Discuss the scope of bone marrow studies in haematology. (25)
2. Discuss the role of F.N.A.C. in the diagnosis of head and neck lesions. (25)
3. Write briefly on:
  - (a) Flow cytometry
  - Western blot test
  - Micro albuminuria
  - Glycosylated haemoglobins
  - Mucin histochemistry.

(5x10=50)

October-1998

**[SM 117]**

**M.D. DEGREE EXAMINATION.**

**Branch III — Pathology**

**(Revised Regulations)**

**Paper IV — IMMUNOPATHOLOGY, HAEMATOLOGY  
PRINCIPLES AND APPLICATION OF TECHNOLOGICAL  
ADVANCES IN LABORATORY SERVICES**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Classify the acute myeloid leukaemias. What is the role of cytochemistry, immunophenotyping and genetic studies in these disorders. (25)
2. Discuss the differential diagnosis of microcytic hypochromic anaemia, with relevant investigations and their interpretation. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) Interphase cytogenetics
  - (b) Anti nuclear factor
  - (c) Haemophagocytic syndromes
  - (d) Growth factors in haemopoiesis
  - (e) Graft versus host disease.

April-1999

[SG 116]

Sub. Code : 2016

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Revised Regulations)

Paper IV — IMMUNOPATHOLOGY, HAEMATOLOGY  
- PRINCIPLES AND APPLICATIONS OF  
TECHNOLOGICAL ADVANCES IN  
LABORATORY SERVICES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the recent trends in the classification of acute Leukaemias. Add a note on their laboratory diagnosis. (25)
  2. Describe the techniques and discuss the usefulness of immuno histochemistry in the diagnosis of soft tissue sarcomas. (25)
  3. Write briefly on : (5 × 10 = 50)
    - (a) Polymerase Chain Reaction.
    - (b) Laboratory diagnosis of bleeding and clotting disorders.
    - (c) Genetic basis of thalassaemias.
    - (d) Pulmonary cytology.
    - (e) Philadelphia chromosome.
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October-1999

[KA 116]

Sub. Code 2016

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Pathology

Paper IV — IMMUNO PATHOLOGY,  
HAEMATOLOGY, PRINCIPLES AND APPLICATION  
OF TECHNOLOGICAL ADVANCES IN  
LABORATORY SERVICES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the current concepts of the structure and function of platelets. How will you investigate disorders of Platelet Function? (25)
2. Discuss the diagnosis, management and prevention of mismatched blood transfusion. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) Red cell membrane disorders
  - (b) Bone-marrow failure
  - (c) HLA & Disease
  - (d) Fanconis Anaemia
  - (e) Polycythaemia.



April-2000

[KB 116]

Sub. Code : 2014

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch III — Pathology

Paper IV — IMMUNOPATHOLOGY, HAEMATOLOGY  
PRINCIPLES AND APPLICATIONS OF  
TECHNOLOGICAL ADVANCES IN  
LABORATORY SERVICES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the laboratory diagnosis of coagulation disorders. (25)
2. Discuss the functional abnormalities of leukocytes. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) Cryoprecipitate.
  - (b) Electrophoresis.
  - (c) Gene tracking.
  - (d) Haemoglobin Bart's.
  - (e) Quality control in clinical chemistry.

October-2000

[KC 116]

Sub. Code : 2014

M.D. DEGREE EXAMINATION.

Branch III — Pathology

(Revised Regulations)

Paper IV — IMMUNOPATHOLOGY,  
HAEMATOLOGY, PRINCIPLES AND APPLICATIONS  
OF TECHNOLOGICAL ADVANCES IN LABORATORY  
SERVICES

Time : Three hours.

Maximum : 100 marks

Answer ALL questions.

- 1 Discuss REAL classification. (25)
  - 2 Discuss Immunopathology of glomerular diseases. (25)
  - 3 Write briefly on : (5 × 10 = 50)
    - (a) FISH
    - (b) FDP
    - (c) Spherocytes
    - (d) Fluocytometry
    - (e) Confocal microscopy.
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