

March 2009

[KU 116]

Sub. Code: 2013

**M.D. DEGREE EXAMINATION**

**Branch III – PATHOLOGY**

**(Common to all candidates)**

**Paper IV – IMMUNOPATHOLOGY, HAEMATOLOGY PRINCIPLES  
AND APPLICATIONS TO TECHNOLOGICAL ADVANCES IN  
LABORATORY SERVICES**

*Q.P. Code : 202013*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. Essay questions : (2 x 20 = 40)**

1. Define disseminated intravascular coagulation. Describe the etiopathogenesis and laboratory diagnosis.
2. Discuss prognostic indices of breast carcinoma.

**II. Write short notes on : (10 x 6 = 60)**

1. Describe the role of serum lipids in health and disease.
2. Discuss molecular basis and diagnosis of thalassemia.
3. Discuss role of automation in clinical pathology.
4. Recent concepts in papillary carcinoma of thyroid.
5. Micro satellite instability.
6. Congenital dyserythropoietic anemias.
7. Laboratory diagnosis of acute leukemias.
8. Describe principles and applications of flow cytometry.
9. Role of immunity in Hodgkins disease.
10. FNAC of thyroid lesions.

\*\*\*\*\*

September 2009

[KU 116]

Sub. Code: 2013

**M.D. DEGREE EXAMINATION**

**Branch III – PATHOLOGY**

**(Common to all candidates)**

**Paper IV – IMMUNOPATHOLOGY, HAEMATOLOGY PRINCIPLES  
AND APPLICATIONS TO TECHNOLOGICAL ADVANCES IN  
LABORATORY SERVICES**

*Q.P. Code : 202013*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. Essay questions :**

**(2 x 20 = 40)**

1. Classify haemolytic anaemias. Discuss the etiopathogenesis, clinical features and laboratory findings in immune haemolytic anaemia.
2. Discuss the role of immunohistochemistry and molecular biology in the classification of lymphomas and leukemia.

**II. Write short notes on :**

**(10 x 6 = 60)**

1. Atypical chronic myeloid leukemia
2. Aggregometer
3. Automation in ESR
4. Liquid based cytology preparation
5. Thrombasthenia
6. Tests for Bence Jones protein
7. Fanconi's anaemia
8. LAP test
9. Downy cell
10. Pleocytosis

\*\*\*\*\*

March 2010

[KW 116]

Sub. Code: 2013

**M.D. DEGREE EXAMINATION**

**Branch III – PATHOLOGY**

**(Common to all candidates)**

**Paper IV – IMMUNOPATHOLOGY, HAEMATOLOGY PRINCIPLES  
AND APPLICATIONS TO TECHNOLOGICAL ADVANCES IN  
LABORATORY SERVICES**

*Q.P. Code : 202013*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. Essay questions :**

**(2 x 20 = 40)**

1. How do you investigate myelodysplastic syndrome?
2. Lymphoma – update.

**II. Write short notes on :**

**(10 x 6 = 60)**

1. Banking of haematopoietic stem cell.
2. Stromal reactions of bone marrow.
3. Platelet therapy and apheresis.
4. Minimal residual disease in leukemia.
5. Discuss organization and legal concerns of blood banking.
6. Haemoglobinopathies in India.
7.  $\beta$  – Thalassemia – molecular biology and laboratory diagnosis.
8. Acute prolymphocytic leukemia.
9. Stains used in vaginal cytology.
10. Discuss creatinine clearance tests.

\*\*\*\*\*