

(LC 116)

APRIL 2013

Sub. Code: 2013

**M.D. DEGREE EXAMINATION
BRANCH III – PATHOLOGY**

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

Q.P. Code : 202013

Time: Three Hours

Maximum: 100 marks

I. Essay: (2X10=20)

1. Recent advances in molecular diagnosis of Paediatric soft tissue sarcoma.
2. Liquid based cytology for cervical screening.

II. Short Questions: (8X5=40)

1. Vimentin
2. α Thalassemia
3. Thrombotic microangiopathies
4. Hemophilia A
5. Myelodysplastic syndrome
6. Morphological variants of thymoma
7. Electrophoresis
8. Reticulocyte count

III. Reasoning Out: (4X5=20)

1. 42/M presented with weakness, weight loss and massive splenomegaly, Peripheral smear was done. Describe the molecular pathogenesis, morphology, and natural history of this case.
2. 26/M presented with weakness, shoulder pain and non-healing leg ulcer. Peripheral smear done followed by another confirmatory test. Discuss the pathogenesis and morphology.
3. 40/F presented with fever with rigor, and mild hepatosplenomegaly. Peripheral smear was done for diagnosis. Discuss in detail the peripheral smear picture.
4. 42/F admitted with fever, night sweat weight loss, painless cervical lymphadenopathy. Lymphnode biopsy was done. CD15 and CD30 positive. Describe the morphology and molecular genetics of this disease.

IV. Very Short Answers: (10X2=20)

1. Cold acting antibodies
2. Ruston bodies
3. T cell associated antigens detected by monoclonal antibodies
4. Chediak-Higashi syndrome
5. Protein S
6. Cytocentrifuge
7. Absolute eosinophil count
8. Inflammatory pseudotumor of lymphnode
9. Heavy chain disease
10. Kimura's disease
