

[LD 0212]

AUGUST 2013

Sub. Code: 5018

**B.Sc. MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR
PAPER III – CLINICAL PATHOLOGY & BASIC HAEMATOLOGY**

Q.P. Code : 725018

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Elaborate on:

(3x10 = 30)

1. Explain the laboratory approach to the diagnosis of leukemia
2. Write in detail thalassemia
3. Explain in detail the collection, processing and analysis of semen

II .Write Notes on:

(8x5 = 40)

1. Explain the investigations of iron deficiency anemia
2. Peripheral smear and bone marrow picture of acute myeloid leukemia – M5
3. Value of sudan black in WBC disorders
4. Laboratory approach to diagnosis of malaria
5. Causes and laboratory approach of pancytopenia
6. Automation in complete blood count
7. Automated urine analysis and quality control measures
8. Red cell membrane

III. Short Answers on:

(10x3 = 30)

1. Blood picture of chronic lymphocytic leukemia
2. Cytogenetic and molecular sub types of AML
3. Needle stick injury
4. Vacutainers used in the clinical pathology laboratory
5. Merits and demerits of automated ESR
6. Heinz body
7. Types and significance of fragmented RBCs
8. Target cell and their significance
9. Z score
10. M : E ratio
