

[LE 0212]

FEBRUARY 2014

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. The development of thrombocytes and mechanism of stoppage of bleeding by thrombocytes.
2. The microscopic appearance of erythrocytes in deficiency anemia's and diagnostic tests required to confirm the deficiency.
3. Classifications of Acute Leukemia's and describe the diagnostic cell (with diagrams) in each type of leukemia.

II .Write Notes on:

(8x5 = 40)

1. Specimen collection for blood cell counting and possible artifacts
2. Advantages & Defects of Automatic Blood Cell Counters
3. Foetal Hb (HbF) in adult blood.
4. Principle of Romanosky's Stains and mention the various different types of Romanowsky's Stains
5. Quality Control of platelet count
6. Difference between exudate and transudate
7. Oligo and Asthenozoospermia
8. Mean Platelet volume and its importance

III. Short Answers on:

(10x3 = 30)

1. Toxic granules in polymorphs - appearance and clinical importance.
2. Atypical Lymphocytes - appearance and clinical importance.
3. Causes of Macrocytic anemia.
4. Anisocytosis – definition and clinical importance
5. Meaning of Asthenozoospermia
6. Megaloblast - appearance and causes
7. Define Thrombocytosis and mention two clinical conditions in which it occurs
8. Peripheral blood appearance in Chronic Myeloid Leukemia.
9. Microcyte - appearance and causes
10. Crystals in Urine- Method of examination and microscopic appearance of any four crystals.
