[LK 0217] FEBRUARY 2017 **Sub. Code: 5018**

B.Sc. MEDICAL LABORATORY TECHNOLOGY

SECOND YEAR

PAPER III – CLINICAL PATHOLOGY AND BASIC HEMATOLOGY

Q.P. Code: 725018

Time: Three Hours **Maximum: 100 Marks**

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Discuss Cerebro Spinal Fluid (CSF) analysis in detail.
2. Classify anemia. Discuss about the laboratory diagnosis of Iron deficiency.
3. Describe in detail about the development of white blood cells (WBCs) with suitable diagrams.

II. Write notes on: **(8 x 5 = 40)**

1. Coulter Principle and its applications in haematology.
2. Haemoglobin electrophoresis.
3. Peripheral blood picture of chronic myeloid leukemia.
4. Preservatives used in urine examination.
5. Tests done for ketone bodies in urine.
6. Thrombocytopenia.
7. Synovial fluid examination.
8. Absolute eosinophil count.

III. Short answers on: **(10 x 3 = 30)**

1. Define quality control.
2. Name three parasites found in peripheral blood.
3. Name any three stains used in bone marrow smear examination.
4. Crystals found in urine.
5. Supravital stains.
6. Define polycythemia and name any two causes.
7. Name any three molecular diagnostic techniques in haematology.
8. Target cell.
9. Thick blood smear.
10. Name any four tests used in the investigation of haemolytic anemia.

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