

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. Define Leukemia. Classify it. Explain the blood and bone marrow findings in CML.
2. a) What is HCG?
b) Mention HCG levels at various stages of pregnancy.
c) Explain different card tests used for the detection of pregnancy.
3. Write brief about automation in hematology, principle of automation, advantages and disadvantages.

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

1. Leukaemiod reactions.
2. Polycythemia.
3. ESR (Erythrocyte Sedimentation Rate).
4. Urine preservatives.
5. Semen analysis.
6. Importance of blood grouping and cross matching.
7. Laboratory diagnosis of Iron deficiency anaemia.
8. Internal quality control in haematology lab.

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

1. Ham's test.
2. Significance of nucleated RBC.
3. Ketone bodies.
4. Hemoglobin estimation values in different ages.
5. Recognition of blood parasites.
6. How do you obtain plasma and serum?
7. Bleeding time.
8. Measurement of faecal fat.
9. Organized sediments of urine.
10. Fouchet's test.