

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. Classify leukemia. Discuss about the lab diagnosis of acute leukemia.
2. Quality control in haematology laboratory.
3. Write in detail about microscopic examination of urine with illustrative diagrams.

II. Write notes on:

(8 x 5 = 40)

1. Various methods of haemoglobin estimation.
2. Bone marrow findings in megaloblastic anemia.
3. Automated cell counter.
4. Cerebro Spinal Fluid (CSF) cell count.
5. Micro-haematocrit.
6. Differences between exudate and transudate.
7. PCR (Polymerase Chain Reaction).
8. Platelet count.

III. Short answers on:

(10 x 3 = 30)

1. Name any three parasites found in urine.
2. Give two uses of buffy coat preparation.
3. Name three abnormal morphologic forms of Red blood cells in peripheral smear.
4. Name any three sites of bone marrow aspiration.
5. Name the stages of malarial parasites found in peripheral blood for *Plasmodium vivax* species.
6. Define pancytopenia.
7. How will you do Ehrlich's test for urobilinogen in urine?
8. Name four anticoagulants used in haematology lab.
9. MCV (Mean Corpuscular Volume).
10. Benedicts's Test.