

QP CODE: 205012

Reg No:.....

**Second Year B.Sc MLT Degree Regular/Supplementary Examinations
May 2021
Haematology II and Clinical Pathology**

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers.*
- *Draw Diagrams wherever necessary.*

Essays

(2x10=20)

1. What are Romanowsky stains. Name five Romanowsky stains. Write the principle of staining and its applications in haematology.
2. Name the abnormal chemical constituents in urine and the test performed to detect them. Discuss the significance of chemical analysis of urine.

Short notes

(10x5=50)

3. Anticoagulants
4. Prothrombin time
5. Hb estimation by cyan meth hemoglobin method
6. Discuss CSF analysis and interpretation in meningitis
7. Blood picture in iron deficiency anemia
8. Cytochemical stains and their applications
9. What is internal quality control in haematology. Give three examples
10. Name the urinary casts. How are they detected
11. What are the advantages of automation in haematology lab
12. Hemoglobin electrophoresis in normal and in B thalassemia major

Answer briefly

(10x3=30)

13. Bence Jones protein. How is it detected
14. What are the hematological evidences of haemolysis
15. Name the pathways of coagulation and the tests used to assess their function
16. Explain normal differential count in an adult. What are the causes of lymphocytosis.
17. Name the stages of erythropoiesis
18. Define hematocrit. Write the normal values
19. The principle of osmotic fragility test. Name one indication
20. Red cell inclusions
21. What is a vacutainer. Name the types of vacutainers
22. Name the stain used to detect iron in the bone marrow. What is the principle of staining.
