Reg No:…………………

Second Year B.Sc MLT Degree Supplementary Examinations January 2022

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. Describe normal hemostasis. Name the lab investigations performed to diagnose hemophilia. Describe the clinical features in hemophilia
2. Name the abnormal constituents on urine microscopic examination. Describe them and name the clinical conditions associated with them

Short notes   **(10x5=50)**

3. Erythrocyte sedimentation rate

4. Bone marrow preparation for examination and indications for bone marrow examination
5. Activated Partial Prothrombin Time
6. Reagent strip test for urine chemical tests
7. What are the characteristics of normal CSF.
8. What are the differences between exudate and transudate. Give example for each
9. Lab diagnosis of sickle cell anemia
10. What are the characteristics of normal semen. Discuss the pathological findings in semen analysis
11. Discuss the principles of cell counters for complete blood counts.

12. Explain leukocytosis. List six causes. Describe the blood picture in chronic lymphocytic leukemia

Answer briefly   **(10x3=30)**

13. Explain chyluria. How is it detected

14. What is normal platelet count. Mention two methods of estimation of platelet count
15. Explain hemoglobinuria. How is it detected
16. Define polycythemia. Name two causes of polycythemia
17. Name four haemoparasites. How are they detected
18. Name two methods of measuring 24-hour urinary protein. What is its clinical significance
19. Define thrombocytosis. List two causes of thrombocytosis
20. Name three hematological investigations done to diagnose haemolytic anemia.
21. Name three red cell indices and write their normal values
22. Define anemia. List the abnormalities in the red cell indices in iron deficiency anemia

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