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PG CBCS

M.Sc. Semester-I Examination, 2023 MEDICAL LABORATORY TECHNOLOGY

PAPER: MLT 102

(HAEMATOLOGY AND SEROLOGY)

Full Marks: 40



MCC/23/M.SC

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

Answer any FOUR questions $2 \times 4 = 8$

- 1. What is pluripotent stem cell?
- 2. Write the application of histoplasma skin test
- 3. Why biotin-avidin is used in ELISA?
- 4. Define arneth count.
- 5. Differentiate leukemoid reaction from leukemia.
- 6. Mention the clinical manifestations of Multiple Myeloma.

GROUP-B	
Answer any FOUR questions:	4×4=16
7. What is titre value? Write its significance.	2+2
8. Write the principle and procedure of Streptozyme test.	2+2
9. Draw a template of a slide used in WIDAL qualitative test with p	roper labelling
Write the application of RPR test.	3+1
10. Write the importance of MHC-II.	
11. Write the causes and consequences of thrombocytopenia.	

GROUP-C

12. Write the cause, clinical features and diagnosis of Von Willebrand disease.

Answer any TWO questions: $8 \times 2 = 16$ 13. State the principle of ELISA to detect the Dengue IgG. Write the procedure to

- perform this test.
- 14. Describe the principle of Mantoux test? How will you draw the inference from the Mantoux test? Briefly write note on "ToRCH panel test".
- 15. Elaborate the epigenetic regulation of hematopoiesis? Write the Pathological variations in different types of WBCs.
- 16. What is the role of BCR-ABL-I gene? Discuss briefly about JAK/STAT pathway. 4+4