

Roll No.

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Total No. of Pages : 02

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B.Sc. (Medical Lab Sciences) (Sem.-5)

APPLIED HAEMATOLOGY-I

Subject Code : BMLS501-18

M.Code : 78368

Date of Examination : 05-07-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION - A

1. **Write briefly :**
 - a. Explain SEM.
 - b. Define CSF.
 - c. What is TLC?
 - d. Explain coagulation factors with example.
 - e. Define ESR.
 - f. Explain composition of synovial fluid.
 - g. Explain differential cell counts.
 - h. Define coefficient variation in data.
 - i. Define composition of seminal fluid.
 - j. What are lymphocytes?

SECTION - B

2. Explain about external and internal quality control including reference preparation.
3. Discuss about the routine examination of urine.
4. Write about composition and function of bone marrow.
5. How can you investigate case suffering from the bleeding disorders?
6. Demonstrate L.E. cell by various methods.

SECTION - C

7. Write in detail about routine examination of CSF and other body fluid.
8. Discuss about processing and staining of trephine biopsy specimens.
9. Explain about basic concepts of automation in hematology with special reference to blood cell counter and coagulometer.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.