

Roll No.

Total No. of Pages : 02

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B.Sc. (MLS) (Sem.-3)

BASIC HAEMATOLOGY & HAEMATOLOGICAL TECHNIQUES-I

Subject Code : BMLS-301-18

M.Code : 93327

Date of Examination : 23-06-2025

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. Answer briefly :

- What is Blood?
- The condition of deficiency of RBC is known as.
- What disease causes low platelet count?
- The process of formation of blood is known as.
- Write the composition of Wright's stain?
- What is Absolute eosinophil count?
- Name any two anticoagulant used to preserve blood?
- What is the full form of JSB Stain? What is the use of JBS Stain?
- Why is blood films prepared?
- What are red cell indices?

SECTION - B

2. Give detail description of blood components and its functions.
3. Write the normal value of all components of blood.
4. Discuss different instrument used in haematology?
5. Describe the function of all components of blood.
6. Explain packed cell volume/ Haematocrit and reticulocyte count.

SECTION - C

7. Give a detail account of principle, composition and procedure for the preparation of JSB and Wright's staining reagent.
8. Discuss detail account of diseases occur due to deficiency of Hb, RBC, WBC and platelets. Explain thrombopoiesis.
9. Discuss detail account of principle & procedure of Reticulocyte count, total leucocyte count. Write the process of formation of blood and its purification.

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.