

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Sc. (MLS) (2018 Batch) (Sem.-3)**

## BASIC HAEMATOLOGY-& HAEMATOLOGICAL TECHNIQUES-I

**Subject Code : BMLS-301-18**

**M.Code : 76630**

**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 :**

- What is the composition of blood?
- Why sodium citrate is not used as an anticoagulant for haemogram?
- What is advantage of Wintrobe's tube?
- Give the name and composition of absolute eosinophil count diluents.
- What is an ideal smear?
- What is methheamoglobin?
- Define Reticulocyte.
- What is a thoma pipette?
- What is the depth of improved Neubauer chamber?
- What is the function of erythropoietin?

### SECTION-B

- 2) What is the role of hematology in a pathology lab and give its importance?
- 3) What are Romanowsky stains? Discuss mostly used Romanowsky stains.
- 4) Write a short note on ESR.
- 5) Describe the principle, method and application of affinity chromatography.
- 6) Discuss the principle and importance of various analyzers used in hematology lab.

### SECTION-C

- 7) What are anticoagulants? List various anticoagulants used, their mode of action and concentration used.
- 8) Explain in detail the formation of various components of blood.
- 9) What is a microscope? With the help of a diagram list its parts and give their function.

**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.**