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Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc.(MLS) (2014 to 2017) (Sem.-1)**  
**BASIC HAEMATOLOGY &**  
**HAEMATOLOGICAL TECHNIQUES-I**  
Subject Code : BMLS-103  
M.Code : 48048

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 :**

- a) What do you understand by buffy coat?
- b) What are the cellular elements of blood?
- c) Give function of leucocytes.
- d) What is erythropoiesis?
- e) Name the diluting fluid used for TLC.
- f) Name two methods used to perform ESR.
- g) What is hypoxia?
- h) Which dye stains the neutrophilic granules?
- i) What is supravital staining?
- j) What is the role of bone marrow?

### SECTION-B

- 2) Discuss the procedure for preparing buffy coat and give its importance.
- 3) Explain the procedure and significance of absolute eosinophil count.
- 4) Write a detailed note on Lab organization.
- 5) Describe the principle, composition and procedure of Leishman staining.
- 6) Discuss the procedure for platelet count and give its importance.

### SECTION-C

- 7) Discuss in detail the process of haemopoiesis.
- 8) What are red cell indices? List their importance.
- 9) Discuss various methods for Hb estimation. Give merits and demerits of each.

**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.**