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**Total No. of Questions : 09**

**B.Sc.(MLS) (2014 to 2017) (Sem.-3)**

# APPLIED HAEMATOLOGY-I

**Subject Code : BMLS-303**

**M.Code : 48108**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION 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 dysfibrinogenemia?
- What is CUSUM chart?
- Name vitamin K dependent factors.
- List the function of factor XIII.
- Define opsonisation.
- What is the function of vWF?
- Discuss oligospermia.
- What is the function of antithrombin III?
- What is significance of casts in urine?
- What is precision?

### SECTION-B

- 2) Discuss in detail various red cell abnormalities.
- 3) What are different types of automatic cell counters in a hematology laboratory? Explain the working of any one of them.
- 4) Discuss in detail the biomedical waste management and its importance.
- 5) Give the principle, procedure of quantitative assay of coagulation factors.
- 6) What is clinical significance of routine examination of body fluids?

### SECTION-C

- 7) Describe in detail the collection, procedure, and interpretation of semen analysis.
- 8) What is standard deviation? Explain with the help of an example.
- 9) Give the composition and functions of bone marrow. Discuss the methods for its aspiration.

**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.**