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# B.Sc.(MLS) (2013 to 2017) (Sem.-2) BASIC HAEMATOLOGICAL TECHNIQUES-II

Subject Code: BMLS-203 M.Code: 48057

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:

- a. Discuss heat instability test.
- b. What is a haemolysate?
- c. Name fast moving haemoglobins.
- d. What is Hess test?
- e. Name natural anticoagulant which has anti-thrombin activity.
- f. Name coagulation factors involved in intrinsic pathway.
- g. What are Heinz bodies?
- h. How will you prepare 500ml of M/40 CaC1<sub>2</sub>?
- i. How a platelet plug is formed?
- j. What is the molecular formula of HbA, HbA2 and HbF?

## **SECTION-B**

- 2. Discuss various vitamin K dependent coagulation factors.
- 3. Write a short note on preparation of thromboplastin.
- 4. Discuss the method for activated partial thromboplastin time (APTT) and its clinical significance.
- 5. What are various methods to measure unstable haemoglobin?
- 6. Write a short note on para hemophilia.

## **SECTION-C**

- 7. Discuss various hemoglobin pigments and methods for measurement.
- 8. Explain the process of blood coagulation with a suitable diagram. Discuss the role of various components in blood coagulation.
- 9. What is sickle cell anemia? Discuss the mechanism and its methods of measurement.

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.

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