

00364

**B.Sc. IN MEDICAL LABORATORY TECHNOLOGY**

**Term-End Examination**

**June, 2015**

**BAHI-002 : BASIC HAEMATOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

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**PART - A**

Answer **any three** questions.

1. Define Leukaemia and explain FAB classification. **10**
  
2. Explain the different methods of blood collection. **10**
  
3. (a) Explain Coagulation. **3+7=10**  
(b) List the screening tests done on a patient with bleeding syndrome.
  
4. (a) Define Haemolytic anemia. **2+4+4=10**  
(b) Write the common laboratory features.  
(c) Write the causes of auto immune Haemolytic anemia.

## PART - B

5. Write short notes on **any four** of the following : **5x4=20**
- (a) Total leukocyte count.
  - (b) Explain Erythrocyte indices and give the sample values in case of iron deficiency anemia.
  - (c) LE cell phenomena
  - (d) Staining of thick blood films
  - (e) Acute leukaemia
6. Write short answers of the following : **2x5=10**
- (a) Causes of thrombocytopenia
  - (b) The functions of platelets
  - (c) Name the red cell inclusions with diagram.
  - (d) Name the anticoagulants used in Haematology with its action.
  - (e) Define whole blood clotting time.

## PART - C

7. (a) Fill in the blanks : **1x5=5**
- (i) Each adult hook worm drinks \_\_\_\_\_ ml of blood/day
  - (ii) Leukaemia associated with low WBC counts are called \_\_\_\_\_ .
  - (iii) Normal AEC Count is \_\_\_\_\_ .
  - (iv) An increase in number of platelets in circulating blood is known as \_\_\_\_\_ .
  - (v) \_\_\_\_\_ is the fluid part of blood.

- (b) Write **TRUE/FALSE** for the following : **1x5=5**
- (i) Aged serum lacks those substances which have been used up in clotting of the blood.
  - (ii) In malaria the infecting parasite develop outside the red cells.
  - (iii) Osmotic fragility is decreased in hereditary spherocytosis.
  - (iv) Average life span of RBC is 100 days.
  - (v) Plasma cells are seen in multiple myeloma.
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