

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

**Term-End Examination**

**June, 2011**

**BAHI-002 : BASIC HAEMATOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

**PART - A**

Answer *any three* questions :

1. What is Leukopoiesis ? Describe the morphology of different Leukocytes. **10x3=30**
2. Describe the maturation process of erythrocytes with the help of suitable diagrams.
3. (a) Describe the methods of collection of blood samples.  
(a) Explain the procedure of total WBC count.
4. (a) List the screening tests done on a patient with bleeding syndrome.  
(b) Describe the procedure of whole blood clotting time.

## PART - B

5. Write short notes on **any four** of the following. **5x4=20**
- (a) Prothrombin time
  - (b) Anticoagulants used in haematology
  - (c) Reticulocyte count
  - (d) PCV
  - (e) E.S.R
  - (f) Megaloblastic anaemia
6. Write short answers of the following : **2x5=10**
- (a) Define thrombocytopenia with two conditions.
  - (b) Principle of Leishman stain
  - (c) Name four methods used to estimate Haemoglobin Percentage
  - (d) Enumerate four features of acute myeloid leukaemia
  - (e) Describe three features of the blood picture in hookworm intestation

**PART - C**

7. Fill in the blanks : **1x10=10**
- (a) Normal AEC count is \_\_\_\_\_ cells/cumm
  - (b) ESR in multiple myeloma \_\_\_\_\_ mm/hr
  - (c) MCH in macrocytic anaemia \_\_\_\_\_
  - (d) Agranulocytosis means \_\_\_\_\_
  - (e) Haemoglobin in a newborn \_\_\_\_\_ g/dL
8. Write True/False, for the following :
- (a) Normal serum contain platelets
  - (b) Cabot ring is a red cell inclusion
  - (c) Normal HbA is made up of 2 alpha chains and 2 beta chains
  - (d) Average life span of RBC is 100 days
  - (e) Cryoprecipitate of freshly separated plasma contain Factor VIII.
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