

**B.Sc. IN MEDICAL LABORATORY TECHNOLOGY  
(BMLT)**

**Term-End Examination**

**December, 2017**

**BAHI-002 : BASIC HAEMATOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

**Note : Attempt any five questions. Question No. 6 is compulsory.**

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1. (a) Write the morphology and functions of normal RBC. 4  
(b) Define anisocytosis and poikilocytosis. 2  
(c) List abnormal forms of erythrocytes seen in peripheral blood and indicate name of disorders in each. 4
2. (a) Define leukopoiesis. 1  
(b) Draw and describe the morphology of four types of leukocytes found in normal peripheral blood. 6  
(c) Give sample value of total WBC count for the following : 3  
(i) Acute appendicitis  
(ii) Aplastic anaemia  
(iii) Normal adult person
3. (a) List the morphological classification of anaemia. 2  
(b) Describe the blood picture of iron deficiency anaemia with diagram. 6  
(c) Enumerate the causes of iron - deficiency anaemia. 2

4. (a) Explain the importance of bone marrow examination briefly. 2
- (b) List the common sites of bone marrow aspiration and name the various types of bone marrow needles. 2
- (c) Discuss the method to prepare bone marrow smear and describe the appearance of Leishman or MGG stained normal bone marrow smear. 6
5. (a) Define Bleeding time. 3
- (b) Differentiate Bleeding time and Clotting time. 4
- (c) Give the normal value of Bleeding time. 3
6. Write short notes on **any five** of the following :  $5 \times 6 = 30$
- (a) Myeloblast
- (b) Leishman stain
- (c) Chronic Myeloid Leukemia (CML)
- (d) Reticulocyte Count
- (e) Megaloblastic Anemia
- (f) Morphology of platelet in stained and unstained preparation
- (g) Basophilic stippling
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