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

**Term-End Examination**

**June, 2017**

**BAHI-010 : APPLIED HEMATOLOGY**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Answer any six questions. Question No. 9 is compulsory.*

1. Define osmotic fragility. Describe quantitative osmotic fragility test. Give its Clinical importance. 2+4+2=8
2. What is iron deficiency anemia ? Enumerate Causes of iron deficiency anemia. How will you investigate a case of iron deficiency anemia in the laboratory ? 2+2+4=8
3. What are haemolytic anemias ? Give an account of hereditary haemolytic anemias. 3+5=8
4. What is FAB Classification of acute myeloid Leukemia ? Write features of cytochemistry of AML. 4+4=8
5. Why bone marrow examination is needed ? Write indications of bone marrow examination. Write procedure of bone marrow Staining by giemsa stain. 2+2+4=8

6. How will you test haemosiderin in bone marrow ? Describe the Procedure of iron staining.  $4+4=8$
7. Describe Conventional and automation procedure of Hb-electrophoresis in the laboratory. Indicate the need for such Procedure.  $6+2=8$
8. What is adult and Foetal Haemoglobin ? How will you estimate in the laboratory ? Give its clinical significance.  $3+3+2=8$
9. Write short notes on **any five** of the following :  $5 \times 6 = 30$
- (a) Haemopoieses.
  - (b) Thalassemia major.
  - (c) Clinical Significance of M/E ratio in bone marrow examination.
  - (d) Haemoglobin 'C' disease.
  - (e) Platelet abnormalities.
  - (f) Demonstration of L.E. Cells.
  - (g) Automation and Quality control haematology.
  - (h) Demonstration of invitro sickle cells in laboratory.
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