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

## Term-End Examination December, 2015

**BAHI-010: APPLIED HEMATOLOGY** 

Time: 3 hours

Maximum Marks: 70

Note:

Question Paper consists of three Parts - Part A, B and

C. Attempt any four questions from Part A.

Attempt all questions from Part B and Part C.

## PART - A

Answer any four questions. Each question carries 10 marks.

- 1. Define Leukemia and Leukemoid reactions. Describe morphology of cells in acute myeloid 3+3+4=10leukemia.
- 2. are indications of bone marrow examination? Describe various cells found in bone marrow especially myeloid and erythroid cells in various stages of formation. Mention M/E ratio and its importance. 3+3+2+2=10
- 3. Define and classify Thalassemia. Describe procedure of Alkali denaturation test for determination of HbF. 2+3+5=10

4.	What is HLA? Describe how HLA type done. Give its clinical importance.	ing is <b>2+4+4=1</b> 0
5.	What are abnormal haemoglobins? Destructural changes giving its clinical impor	
6.	What is osmatic fragility? Describe the proconfest and report. Write its clinical import	
	PART - B	
7.	Write in brief any two of the following:	2x10=20
	(a) Anti haemophilic factor	
	(b) PAS staining	
	(c) Role of non-specific esterase staining in marrow.	n bone
	PART - C	
8.	Fill in the blanks:	1x5=5
	(a) Alkali denaturation method d haemoglobin	etects
	(b) Pearls' reaction indicate preser in bone marrow.	nce of
	(c) Positive L.E. Cells indicate present disease	nce of
	(d) HbA <sub>2</sub> and HbF are major determination diagnosis of	ant for
	(e) In Pulmonary embolism and v thrombosis maintenance of	

- 9. Answer True (T) or False (F) of the following: 1x5=5
  - (a) PT; PTTK are basic tests to evaluate coagulation profile.
  - (b) CRP, complement and ESR are essential test for diagnosis of autoimmune diseases.
  - (c) In vitro sickling phenomenon is performed by using sodium nitroprusside as surfactant.
  - (d) More than 50% count of myeloblast and promyelocyte in peripheral blood indicate bone marrow examination and immuno cytochemistry for confirmation of acute leukemia.
  - (e) Decrease quantities of factor VIII and factor IX indicates purpura disorders.