B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination December, 2010

BAHI-002: BASIC HAEMATOLOGY

Time: 3 hours Maximum Marks: 70

PART - A

Answer any three questions:

3x10=30

- 1. What are anticoagulants? Discuss the various anticoagulants used in haematology.
- 2. Describe the development of myelopoiesis with the help of diagrams.
- 3. Describe the preparation of blood smear and write the procedure of peripheral smear staining by Leishman Stain.
- (a) Explain the morphology and the functions of platelets.
 - (b) Describe in brief the most common platelet function tests that you perform in your laboratory.

PART - B

- 5. Write short notes on any four of the following:
 - (a) Absolute eosinophil count.

5x4=20

- (b) L.E. cell
- (c) PCV
- (d) Abnormal RBC
- (e) Osmotic fragility
- (f) Sickle cell.
- 6. Write short answers of the following: 2x5=10
 - (a) Define Leukocytosis with two conditions.
 - (b) Write morphological classification of anaemia.
 - (c) Enlist four physiological factors influencing the rate of sedimentation.
 - (d) Enlist four erythrocyte indices with normal values.
 - (e) Explain total WBC count in chronic lymphatic Leukaemia.

PART - C

7.	(a)	Fill in the blanks:		1×10=10
			The normal reticulocyte count in born is %.	new
			The commonly used RBC dilutifluid is	ting
		(iii)	PCV in Polycythemia vera	is
		(iv)	Platelet count in acute leukaemi	a is
		(v)	Normal size of RBC is	 :
	(b)	Write	True/False for the following:	
			Total WBC count is done using immersion objective.	oil
		(ii)	Myeloblasts are peroxidase positi	ve.
			ESR is increased if the tube is tilted not vertical.	and
			The osmotic fragility of red blood of its decreased in heredit spherocytosis.	
			The basophil is the largest white blocell.	ood