Time: 3 hours

Maximum Marks: 70

BAHI-002 B.Sc. IN MEDICAL LABORATORY TECHNOLOGY Term-End Examination

BAHI-002: BASIC HAEMATOLOGY

Note: Part-A contains 10 objective questions.

	P	art-B	contains 5 short answer quesions.
		art-C uesion	contains 6 short notes. Answer any four s.
		art-D uestion	contain 4 essay questions. Answer any three as.
			PART - A
1.	(a)	Fill i	n the blanks 1x10=10
		(i)	ESR value in Multiple myeloma is
			·
		(ii)	Thalassaemia is also called
		(iii)	Haemoglobin seen in sickle cell anemia is
		(iv)	
		(v)	In Hereditary spherocytosis osmotic fragility of red cells is

- (b) Write true or false for the following:
 - (i) In Acute myeloid leukaemia the myeloblast count is increased.
 - (ii) Myeloblasts are peroxidase negative.
 - (iii) Granules in eosinophil after Romonowsky staining is orange pink.
 - (iv) High leucocyte count in acute infection shows shift to the right.
 - (v) Usual dilution used for red blood cell count is $\frac{1}{100}$.

PART - B

- 2. Write short notes on *any four* of the following:
 - (a) E.D.T.A

5x4=20

- (b) Arneth count
- (c) Chronic myeloid leukaemia
- (d) Leishman stain
- (e) RBC inclusions
- (f) Thick blood smear

PART - C

- 3. Write short answers on the following: 2x5=10
 - (a) Define bleeding time and clotting time
 - (b) Enumerate complete blood count (Haemogram)
 - (c) Importance of bone marrow examination
 - (d) Causes of iron deficinecy anaemia
 - (e) Factors influencing ESR (Erythrocyte Sedimentation Rate)

PART - D

Answer any three questions:

- 4. (a) Describe the morphology and methods of counting platelets. 4+6=10
 - (b) Write the functions of platelets and conditions affecting disintegration of plate lets.
- 5. (a) List four abnormal forms of erythrocytes seen in peripheral blood and indicate name of disorders in each.2+8=10
 - (b) Give an account and significance of a abnormal forms of RBC and WBC in peripheral blood.
- 6. Describe Haemopoiesis. Draw the well labelled 10 diagram of each stage of development.
- 7. (a) Describe in detail the mechanism of coagulation of blood. 6+4=10
 - (b) Name screening tests used in the laboratory to investigate a case of Haemophilia A and B.