BAHI-010

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination December, 2012

BAHI-010 : APPLIED HEMATOLOGY

Time : 3 hours

Maximum Marks: 70

PART-A

Answer *any five* questions. Each question carries 8 marks. 5x8=40

- 1. Enumerate the indications for bone marrow aspiration study and describe in detail the procedure and preparation of bone marrow aspiration.
- Describe procedure of preparation and demonstration of Lupus - Erythematosis cell (LE cells) and enumerate its clinical significance.
- **3.** Describe the principle, procedure and clinical importance of osmotic fragility test.
- 4. Enumerate and describe the various laboratory investigations used in diagnosis of sickle cell anaemia.

BAHI-010

- 5. Describe the principle, method and interpretation of Haemoglobin electrophoresis qualitatively and quantitatively for evaluation.
- 6. Enumerate and describe the role of various cytochemical stains used in diagnosis of acute leukaemias.
- 7. (a) Define automation and explain the advantages of automation in laboratory.
 - (b) Explain the automated techniques in coagulation analysis.
- 8. Explain with the help of diagrams the Human Leukocyte Antigen complex (HLA). Describe the clinical importance of HLA typing.

PART-B

- 9. Write short notes on any five of the following.Each carries six marks.5x6=30
 - (a) May Greenwald-Grunwald stain
 - (b) Perls Prussian blue reaction
 - (c) K li hauer test
 - (d) Peroxidase stain
 - (e) HAMS test
 - (f) Naked Eye Single Tube Red cell Osmotic Fragility test (NESTROF)
 - (g) LAP score
 - (h) PAS stain