

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

00363

Term-End Examination

December, 2016

BAHI-010 : APPLIED HAEMATOLOGY

Time : 3 hours

Maximum Marks : 70

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

1. What is L.E. cell phenomenon ? Describe the various methods for demonstration of L.E. cells. How do you differentiate them with Tart cells ?
2+4+2=8

2. Describe the procedure of Hb-electrophoresis. Give the importance of Hb-A₂ and HbF. 4+4=8

3. What are 'Microcytic Hypochromic' anemias ? How will you investigate them ? 2+6=8

4. How will you calculate MCV, MCH and MCHC ? Give their normal values and write the significance of each. 4+4=8

5. What is absolute eosinophil count ? Describe 'Direct' and 'Indirect' methods. Give the clinical significance of eosinophilia. 2+4+2=8

6. What are bleeding disorders ? Describe how you will investigate purpuras. 2+6=8
7. Enumerate the various coagulation factors. Describe extrinsic and intrinsic mechanisms of coagulation. 3+5=8
8. Describe the morphology of various cells in peripheral blood smear examination. Enumerate the picture of peripheral smear in megaloblastic anemias. 4+4=8
9. Write short notes on any *five* of the following : $5 \times 6 = 30$
- (a) 'Leukemia' and 'Leukemoid Reactions'
 - (b) Haemoglobinopathies
 - (c) Giemsa Stain Preparation and Composition
 - (d) Indications of Bone Marrow Examination
 - (e) Haemosiderin Staining Procedure
 - (f) Sickle Cell Anemia
 - (g) Hereditary Haemolytic Anemias
 - (h) G₆PD Deficiency in RBCs
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