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B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination

December, 2017

BAHI-010 : APPLIED HAEMATOLOGY

Time : 3 hours *Maximum Marks : 70*

Note : Attempt any six questions. Q.No. 9 is compulsory.

Answer any five (5) questions of the following : 5x8=40

1. Explain extrinsic and intrinsic mechanism of Coagulation ? Describe recent trends and advances of automation in estimation of Coagulation profile. 5+3

2. Discuss Sickling phenomenon. How do you demonstrate in vitro the presence of Sickle cells in Sickle cell anemia ? 3+5

3. Define Hb - electrophoresis. Describe the role of Hb - electrophoresis in haemoglobinopathies. 3+5

4. Explain Pearl's reaction. Describe the principle, procedure and clinical importance of over loading of haemosidrin in bone marrow. 3+5

5. Define Leukemia and Leukemoid reaction. Describe the principle, procedure and technique of 'Giemsa' staining of bone marrow smears. 3+5

6. Enumerate haemorrhagic disorders. How will you investigate in the laboratory ? Mention the tests to be performed to rule out the diseases. 3+2½+2½

7. Enumerate the tests done for HDN (Haemorrhagic Diseases of Newborn). Describe the principle, procedure of alkali denaturation test for HbF. 3+5

8. Define Osmatic Fragility test. Describe principle, procedure and clinical importance of fragility test of RBC's. 3+5

9. Write short notes on **any five (5)** of the following : 5x6=30

(a) Thalassemia major 6

(b) Allergic purpura 6

(c) Haemostasis 6

(d) Reticulocyte Count 6

(e) Platelet Count 6

(f) Tart Cell and L.E. Cell 6

(g) HLA - typing 6

(h) Prothrombin time and INR 6