

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

December, 2011

BAHI-002 : BASIC HAEMATOLOGY

Time : 3 hours

Maximum Marks : 70

PART - A

Answer *any three* questions :

1. Explain the methods of collection of blood samples and describe the procedure of total WBC count. (TLC). **3x10=30**

2. (a) Define and classify anaemia.
(b) Describe the blood picture of Iron deficiency anaemia with the help of suitable diagrams.

3. (a) Enlist the different methods of Haemoglobin Estimation.
(b) Describe cyanmethaemoglobin method alongwith its merits and demerits.

4. (a) Enlist the screening tests performed on a patient with bleeding disorders.
(b) Describe the procedure for whole blood Clotting Time. (CT)

PART - B

5. Write short notes on *any four* of the following : 5x4=20
- (a) Anticoagulants used in haematology.
 - (b) Reticulocyte count
 - (c) Preparation and staining of thick and thin film.
 - (d) ESR methods and clinical significance giving importance of each.
 - (e) Haematocrit (PCV) and its significance.
6. Write short notes on the following : 2x5=10
- (a) Immature granulocytic WBCs.
 - (b) Bone Marrow aspiration sites
 - (c) Thrombocytopenia
 - (d) Functions of RBCs
 - (e) FAB classification of Leukaemia

PART - C

7. (a) Fill in the blanks : 1x10=10

- (i) Normal AEC count is _____
cells/cumm
- (ii) Heparin is used as _____
- (iii) Westergren's Tube is used for

- (iv) Bone marrow smear is fixed in

- (v) Normal bleeding time is _____.

(b) Write True/False for the following :

- (i) E.D.T.A. is an ideal antscogulants for Prothrombin time test.
 - (ii) Lymphocyte counts are higher in adults than in children.
 - (iii) Osmolic fragility of red cells is increased in Hereditary spherocytosis.
 - (iv) AEC is mandatory test for evaluation in allergic conditions.
 - (v) Normal serum contains increase in coagulation factors.
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