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BAHI-002

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

December, 2015

BAHI-002 : BASIC HAEMATOLOGY

Time : 3 hours *Maximum Marks : 70*

Note : *(i)* ***Part - A*** *contains* ***two*** *objective questions. (Attempt both)*

(ii) ***Part - B*** *contains* ***one*** *question.*

(iii) ***Part - C*** *contains* ***one*** *short notes. It is compulsory.*

(iv) ***Part - D*** *contains* ***4*** *essay questions. Answer* ***any three*** *questions.*

PART - A

1. Fill in the blanks : **1x5=5**

(a) The normal reticulocyte count in new born is _____.

(b) Normal AEC count is _____ cell/ cumm.

(c) Normal bleeding time is _____.

(d) The average diameter of normal erythrocyte is _____.

(e) Variation in the shape of erythrocyte is _____.

2. Write **true** or **false** for the following : **1x5=5**

(a) Myeloblast is peroxidase positive.

(b) Methylene blue is an basic stain.

(c) Red cells are too red because the buffer is alkaline.

(d) Normal serum contain platelet.

(e) Plasma cells are normally seen in bone marrow.

PART - B

3. Write short notes on **any four** of the following : **5x4=20**

(a) EDTA

(b) Leishmania stain

(c) Reticulocyte count and its significance

(d) Abnormal RBC

(e) PCV

(f) ITP (Ideopathetic Thrombocytic Purpura)

PART - C

4. Write short answers on the following : **2x5=10**

(a) Principle of Giemsa stain.

(b) Name four methods used to estimate Hb percentage.

(c) M.C.H.C

(d) Define Leukocytosis.

(e) Composition of Drabkin's solution.

PART - D

Answer **any three** questions :

5. (a) Define anemia. **1+4+5=10**

   (b) Describe the morphological classification of anemia.

   (c) Describe the blood picture of anemia caused by Hook Worm infection.

6. Describe the maturation process of erythrocytes with the help of suitable diagram. **10**

7. (a) Which is the cell count most monitored in Dengue fever. **1+7+2=10**

   (b) Describe the procedures of doing above cell count.

   (c) Give sample values in the following :
   (i) Acute Leukaemia.
   (ii) Von Willebrand disease.
   (iii) Aplastic anemia.
   (iv) Normal person.

8. (a) Define leukaemia and give the classification of leukaemia. **4+6=10**

   (b) Explain in detail the peripheral blood picture in AML (Acute Myeloid Leukaemia) with diagram.