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BAHI-002

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

00499

Term-End Examination

June, 2016

BAHI-002 : BASIC HAEMATOLOGY

Time : 3 hours *Maximum Marks : 70*

Note : *Part A contains ten objective questions. Attempt* ***all*** *questions. Part B contains six short notes. Answer any* ***four*** *questions. Part C contains five short answer questions. Attempt* ***all*** *questions. Part D contains four essay questions. Answer any* ***three*** *questions.*

PART A

1. (a) Fill in the blanks. *5×1=5*

(i) Platelets are fragments of _____ .

(ii) Osmotic fragility is decreased in _____ .

(iii) The erythrocytes appear as piles of coins which are called _____ .

(iv) The darkest cell seen in the bone marrow is _____ .

(v) The diluting fluid used for platelet count is _____ .

2. Write *true* or *false* for the following : $5 \times 1 = 5$

(a) Bone marrow smear is fixed in formalin.

(b) Cabot ring is an RBC inclusion.

(c) Anticoagulant therapy is monitored by PT.

(d) EDTA is a calcium chelater.

(e) WBC count is done by oil immersion.

PART B

3. Write short notes on any ***four*** of the following : *4×5=20*

(a) Functions of RBC

(b) Haemolytic anaemia

(c) Megakaryocyte

(d) Haemophilia A

(e) RBC inclusions

(f) LE cells

PART C

4. Write briefly on the following : *5×2=10*

(a) Spherocytes

(b) Toxic granulation

(c) Sickling

(d) DIC

(e) Turk's fluid

PART D

*Answer any **three** questions.* *3×10=30*

5. (a) Describe the methods of collection of blood samples.

   (b) Explain the procedure of Total WBC count. *5+5=10*

6. (a) List the screening tests done on a patient with bleeding syndrome.

   (b) Describe the procedure of whole blood clotting time. *4+6=10*

7. Describe the development of myelopoiesis with the help of diagrams. *10*

8. (a) Describe the development of platelet with diagram.

   (b) Write the functions of platelets.

   (c) Describe the direct method of doing platelet count mentioning the precautions you could take. *4+2+4=10*
