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**BAHI-002** 

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## Term-End Examination

### December, 2014

BAHI-002: BASIC HAEMATOLOGY

Time: 3 hours

Maximum Marks: 70

#### PART - A

Answer three questions.

Define anemia. 1. (a)

2+8

- (b) Explain the morphological classification of anemia. Describe the blood picture of megaloblastic anemia with diagram.
- 2. (a) Define anticoagulant.

2+8

- (b) Classify the various anticoagulants used in clinical laboratory, based on their mode of action and concentration of its use.
- What is the importance of peripheral blood 2+8 3. (a) picture examination?
  - (b) Explain the preparation of a blood smear. Describe the staining procedure of the smear. How do you examine a peripheral blood smear?

- 4. (a) Draw and describe the maturation process **6+4** of Erythrocyte.
  - (b) Give the sample values in the following conditions:
    - (i) Hb in polycythemia vera.
    - (ii) Total WBC count in aplastic anemia.
    - (iii) Normal Reticulocyte count in new born.
    - (iv) Platelet count in acute myeloid leukaemia.

#### PART - B

5. Write short notes on any four of the following:

(a) ESR

5x4=20

- (b) LE cells
- (c) Abnormal RBC
- (d) Osmotic fragility
- (e) Bleeding time
- (f) PCV

**6.** Write short answers of the following :

2x5=10

- (a) Megakaryocyte
- (b) Anticoagulant
- (c) Basophil
- (d) Leukocytosis in 2 conditions
- (e) Principles of leishmans stain.

# PART - C

7.	(a)	Fill in the blanks. 1x5=5
		(i) Osmotic fragility will be increased in
		(ii) In haemophilia is normal.
		(iii) The commonly used RBC diluting fluid
		(iv) The normal Absolute Eosinophil is
		(v) Normal pH of blood is
	(b)	Write <b>true / false</b> in the following: 1x5=5
		(i) Normoblast are normally present in peripheral blood.
		(ii) Hypocellular bone marrow is seen in aplastic anemia.
		(iii) In myeloid leukaemia peroxidase is positive.
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