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BAHI-001

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

June, 2012

00361

BAHI-001 : BASIC HUMAN SCIENCES

Time : 3 hours *Maximum Marks : 70*

Note : ***PART-A*** *contains* ***10*** *objective questions.*

PART-B *contains 5 short answer questions.*

PART-C *contains* ***6*** *short notes. Answer* ***any four*** *questions.*

PART-D *contains* ***4*** *essay questions. Answer* ***any three*** *questions.*

PART - A

1. (a) Fill in the blanks : **1x5=5**

(i) Chemical formula of silver nitrate is _____ .

(ii) An electric current represents flow of _____ .

(iii) Water with low mineral content is called _____ .

(iv) An enzyme secreted by the mucosa of the small intestine and converts Trypsinogen to Trypsin is _____ .

(v) _____ is the blood borne chemical hormone that is responsible for stimulating the secretion of gastric juice.

(b) Indicate True or False for the following : **1x5=5**

(i) A grade glassware should be boiled or sterilized.

(ii) The speed of hand centrifuge is usually 500 - 1000 rpm.

(iii) The amount of fasting gastric juice in stomach is 20 ml.

(iv) Hormone affecting the reabsorption of water in the renal tubules is aldosterone.

(v) The human cells have 46 chromosomes except mature germ cell.

PART - B

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

(a) Difference between rough balance and common balance.

(b) Beer's law

(c) Convert 212° F (Fahrenheit) to centigrade

(d) Functions of stomach

(e) Insulin

PART - C

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

   (a) Inspissation

   (b) Buffer

   (c) Laboratory accidents due to chemical burns

   (d) Neuron

   (e) Functions of epithelium

   (f) Pancreatic juice

PART - D

4. Answer ***any three*** of the following : **10x3=30**

(a) Describe the principle and procedure of Hot air oven with a diagram. **10**

(b) (i) Define normal solution **2+8**

(ii) Describe the method for preparation of normal saline

(c) (i) List the endocrine glands in human body **3+7**

(ii) Describe the structure and functions of any one of the endocrine gland.

(d) Describe the structure and functions of liver with the help of suitable diagram. **10**