Time: 3 hours

BAHI-012

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination June, 2013

00166

P.T.O.

Maximum Marks: 70

BAHI-012: ORGANIZATION LABORATORY MANAGEMENT AND APPLIED BIOCHEMISTRY

Note:		Part-A Contains 10 objective questions. Part-B Contains 5 short answer questions. Part-C Contains 6 short answer, answer any 4. Part-D Contains 4 questions answer any 3.	
			PART - A
1.	(a)	Fill i	n the blanks: $1x10=10$
		(i)	Usual pH at which electrophoresis of
			serum protein is done in
		(ii)	Bicarbonate ions constitute about
			of the total carbondioxide
			in plasma or serum.
		(iii)	The first step in urea cycle is the
			formation of
		(iv)	All proteins are made up of
		(v)	is a harmone which is valuable in Thyroid functions.

1

- (b) Write true or false:
 - (i) The normal range for plasma or serum bicarbonate is 10-20 m mol/l
 - (ii) Proteins is the only source of nitrogen in the body.
 - (iii) All proteins are made up of amino acids.
 - (iv) Human chorionic gonadotrophin is a lipo protein.
 - (v) The normal range of blood urea is 60 70 mg%

PART - B

- 2. Write short answers on the following: 2x5=10
 - (a) Peptide Bond
 - (b) Internal control used in biochemistry lab
 - (c) Common instrumental accidents occur in the lab
 - (d) Write the need of automation in the lab.
 - (e) Features of tumor markers.

PART - C

3. Write short notes on any four.

4x5

- (a) B HCG
- (b) Common causes of fire in the lab
- (c) Semi auto analysers
- (d) Transamination
- (e) Disinfectant used in the lab
- (f) Pre analytical problems occur in the Biochemistry lab.

PART - D

Answer any three questions.

- 4. (a) What are the important functions of thyroid hormone? 3+3+4
 - (b) List the screening test used in thyroid functions, normal value of each test.
 - (c) Describe the clinical importance of these tests in the diagnostic field.
- 5. (a) What is blood urea? 2+5+3
 - (b) Describe the urea cycle
 - (c) Write the normal value of blood urea and the clinical importance of the above test.
- 6. (a) Write the principles of serum protein electrophoresis.
 - (b) Name different supporting media used for the migration of protein and write and describe a commonly used method for serum protein electrophorsis.
 - (c) Describe the normal and abnormal Immuno electrophore patterns of globulins and write the clinical significance.
- 7. (a) Write the importance of the laboratory waste management. 2+3+5
 - (b) Write the different types of biomedical waste.
 - (c) Describe the various methods of laboratory waste treatment.