B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination December, 2010

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:		x10=10	
		(i)	Chemical formula of sodium		
			carbonate is		
		(ii)	The temperature of waterbath is regulated at °C.		
		(iii)	Tetany is a disease due to decreased activity of		
		(iv)	Respiration is controlled by the centre		
		(v)	The nerve stimulation for gastric secretion is		

- (b) Indicate True or False of the following:
 - (i) Always pour the water into acid while diluting.
 - (ii) While using analytical balance the weight should be added in ascending order of magnitude.
 - (iii) The air is more of oxygen and less of carbondioxide.
 - (iv) The normal rate of respiration in children is lower than adult.
 - (v) Tumour(s) of adrenal gland can lead to Cushing's disease.

PART - B

- 2. Write short answers on the following: 2x5=10
 - (a) Illumination of microscope.
 - (b) What are the differences between photoelectric colorimeter and spectrophotoelectric colorimeter?
 - (c) Enzymes of pancreatic juice and their functions.
 - (d) Factors governing the speed of centrifugation.
 - (e) Urea formation.

PART - C

3. Answer any four short notes.

- 5x4 = 20
- (a) Magnification of a microscope
- (b) Water
- (c) Nephron
- (d) Hot air oven
- (e) Mitotic division of a cell.
- (f) Structure and functions of connective tissues.

PART - D

4.	Answer any three of the following: 10x3				
	(a)		ain cardiovascular system of hum with appropriate diagrams.	an 10	
	(b)		cribe the structure and functions stive system with suitable diagrams.	of 10	
	(c)	(i)	Distinguish between disinfection ar sterilization.	nd 2	
		(ii)	Describe the principle and procedu of autoclaving with a diagram.	re 8	
	(d)	(i)	Define solutes and solutions.	2	
		(ii)	Describe types and molarity of various solutions giving examples of each	ıs 8	