No. of Printed Pages : 5

**BAHI-001** 

# B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT) Term-End Examination June, 2016

00244

## **BAHI-001 : BASIC HUMAN SCIENCES**

Time : 3 hours

Maximum Marks: 70

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

#### PART A

(a)	Fill in the blanks. $5 \times 1 = 5$	
	(i)	Function of ribosomes in a cell is
	(ii)	The nerve involved in stimulating gastric secretion is
ñ.,	(iii)	Chemical formula of sodium hydroxide is
	(iv)	0·1 mL serum is diluted to 10 mL. The final dilution is
	( <b>v</b> )	In fluorescence microscope, light is used to illuminate particle.
	(a)	(i) (ii) (iii) (iv)

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P.T.O.

- (b) Indicate true or false for the following :  $5 \times 1=5$ 
  - (i) The temperature in a freezer  $is 20^{\circ}C$ .
  - (ii) Valency of Barium is one.
  - (iii) The physical balance usually weighs to the nearest  $\frac{1}{10}$  gm.
  - (iv) Four ventricles are present in the human brain.
  - (v) Tetany is the disease due to decreased function of thyroid gland.

### PART B

2.	Wri	5×2=10							
	(a)	Tyndallization							
	(b)	Factors that govern the speed centrifugation	of						
	(c)	Antidiuretic hormone							
	( <b>d</b> )	Renal threshold							
	(e)	Functions of stomach							

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### PART C

- **3.** Write short notes on any *four* of the following:  $4 \times 5 = 20$ 
  - (a) Spectrophotometer
  - (b) Dark field microscopy
  - (c) Reticulo-endothelial system
  - (d) Thyroid gland
  - (e) Lungs

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(f) The groups of tissues

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An	swer (	any <b>three</b> of the following : 3×10=	-30
4.	(a)	Describe the structure of liver.	4
	(b)	Explain the mechanism of production of bile pigments.	6
5.	(a)	What are the functions of the nervous system?	4
	(b)	Describe the structure and functions of cerebrum. Draw the diagram of a neuron.	6
6.	(a)	Describe the methods of disinfection and sterilization. List the various chemicals used for disinfection.	4
	(b)	Describe the principle and procedure of autoclaving with diagram.	6
7.	(a)	Define percent solutions.	2
	(b)	Describe the method for the preparation of 10 gm% sodium chloride and 5% hydrochloric acid.	8

PART D

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500

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