

**B.Sc. IN MEDICAL LABORATORY TECHNOLOGY**

**Term-End Examination**

**December, 2015**

**BAHI-001 : BASIC HUMAN SCIENCES**

*Time : 3 hours*

*Maximum Marks : 70*

**Note : PART - A** contains objective questions. Answer *all* the questions.

**PART - B** contains short answer questions. Which is *compulsory*.

**PART - C** contains short notes. Which is *compulsory*.

**PART - D** contains *four* essay questions, answer *any three* of them.

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**PART - A**

1. Fill in the blanks : 1x5=5

- (a) The chemical formula of sodium chloride is \_\_\_\_\_.
- (b) When using the hot air oven the ideal temperature for sterilization is \_\_\_\_\_.
- (c) The functional unit of the kidney is \_\_\_\_\_.
- (d) The innermost layer of meninges is \_\_\_\_\_.
- (e) The fourth phase of mitosis is \_\_\_\_\_.

2. Answer True or False : 1x5=5

- (a) Water with low mineral content is called soft water.
- (b) The temperature of waterbath is regulated at 100°C.
- (c) Nose piece is the optical part of a microscope.
- (d) Hormone is a chemical messenger secreted by ductless gland.
- (e) Normal function of glomerulus is secretion.

### PART - B

3. Write short answers on following : 2x5=10

- (a) Beer's law
- (b) Working distance of a microscope
- (c) Functions of kidney
- (d) Insulin
- (e) Glycosuria

### PART - C

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

- (a) Autoclave
- (b) Spectrophotometer
- (c) Normal solution
- (d) DNA and RNA
- (e) Functions of liver
- (f) Nephron

## PART - D

Answer **any three** questions :

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|----|--|----|
| 5. | Describe structure and functions of cell with well labelled diagram.                               | 10 |
| 6. | Describe the structure and functions of liver.   | 10 |
| 7. | (a) List the endocrine glands in human body.   | 3  |
|    | (b) Describe the structure and functions of any one of the endocrine glands.                       | 7  |
| 8. | (a) What is the principle of photoelectric colorimeter ?   | 2  |
|    | (b) Draw a well labelled diagram of photo electric colorimeter and explain functions of each part. | 4  |
|    | (c) List the precautions to be taken while using photoelectric colorimeter.                        | 4  |
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