

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

**Term-End Examination**

**December, 2011**

**00399**

**BAHI-001 : BASIC HUMAN SCIENCES**

*Time : 3 hours*

*Maximum Marks : 70*

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- 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.**
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**PART - A**

1.   (a)   Fill in the blanks : 1x5=5
- (i)   Chemical formula of Ammonium hydroxide is \_\_\_\_\_.
- (ii)  Electrically charged particles are called \_\_\_\_\_.
- (iii) The beam of balance should be arrested before adding and removing weight. If not \_\_\_\_\_ will be damaged.
- (iv)  The enzyme that converts caseinogen to casein is \_\_\_\_\_.
- (v)  The innermost layer of meninges is \_\_\_\_\_.

- (b) Indicate *True* or *False* for the following :  $1 \times 5 = 5$
- (i) Nose piece is the optical part of a microscope.
  - (ii) Most common method of obtaining purified water is distillation.
  - (iii) In renal/glycosuria blood glucose level is elevated.
  - (iv) The third phase of mitosis is metaphase.
  - (v) The basic unit of the nervous system is nephron.

## PART - B

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

- (a) Difference between angle head type and swing out type centrifuge.
- (b) Define Refraction.
- (c) Convert  $100^{\circ}\text{C}$  (centigrade) to Fahrenheit.
- (d) Storage of glycogen.
- (e) Define hormone

**PART - C**

3. Write short notes on *any four* of the following : 5x4=20
- (a) Tyndallisation
  - (b) Spectrophotometer
  - (c) Cleaning of used glasswares
  - (d) Gastric juice
  - (e) Functions of liver
  - (f) Pituitary gland.

## PART - D

4. Answer *any three* of the following :

- (a) (i) List different types of microscopes. **2+8**  
(ii) Describe the parts of a compound microscope and its functions.
- (b) (i) Define percent solutions **2+8**  
(ii) Describe the different ways of expressing percent solutions.
- (c) (i) Describe the structure of nephron **5+5**  
with diagram.  
(ii) Write the functions of Kidney.
- (d) (i) Describe the structure of lungs. **5+5**  
(ii) Describe in detail about respiration.
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