

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

**Term-End Examination**

**June, 2015**

**BAHI-001 : BASIC HUMAN SCIENCES**

*Time : 3 hours*

*Maximum Marks : 70*

- Note :*
- (i) *Part-A contains two objective questions.*
  - (ii) *Part-B contains one short answer questions which is compulsory.*
  - (iii) *Part-C contains one short notes which is compulsory.*
  - (iv) *Part-D contains four essay questions, answer any three of them.*
- 
- 

**PART - A**

1. Fill in the blanks : 1x5=5
- (a) Valency of potassium is \_\_\_\_\_ .
  - (b) The temperature in the cooling compartment of refrigerator should be \_\_\_\_\_ .
  - (c) The basic unit of the nervous system are \_\_\_\_\_ .
  - (d) \_\_\_\_\_ number of chambers are present in the human heart.
  - (e) The human cell have \_\_\_\_\_ chromosomes except mature germ cell.

2. Answer **True** or **False** : **1x5=5**
- (a) An electric current represents flow of electrons.
  - (b) The boiling point of water is at 100°C.
  - (c) The wave length of visible spectrum is 400-700 nm.
  - (d) The function of mitochondria is cell respiration.
  - (e) Amylase is an enzyme which converts fat to fatty acids.

**PART - B**

3. Write short answers on : **2x5=10**
- (a) Factors governing the speed of centrifugation.
  - (b) Inspissation
  - (c) Achlorhydria
  - (d) Functions of stomach
  - (e) Functions of hormone

**PART - C**

4. Write short notes on (any four) : **5x4=20**
- (a) Hot air oven
  - (b) Objectives of compound microscope
  - (c) Buffer
  - (d) Bile salt and Bile pigments
  - (e) Pancreatic function tests
  - (f) Mitosis

## PART - D

Answer **any three** questions : 10x3=30

5. Explain cardiovascular system of human body with diagram. 10
6. (a) Write the functions of kidney. 4  
(b) Describe the structure of nephron with diagram. 6
7. (a) Define sterilization and disinfection. 2  
(b) Describe the principle and procedure of autoclaving with diagram. 8
8. (a) List different types of microscope. 2  
(b) Describe the parts of a compound microscope and its functions. 8
-