

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

June, 2014

BAHI-001 : BASIC HUMAN SCIENCES

Time : 3 hours

Maximum Marks : 70

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- Note :** (i) *Part-A contains ten objective questions.*
(ii) *Part-B contains five short answer questions.*
(iii) *Part-C Six short notes. Answer any four.*
(iv) *Part-D Four essay questions. Answer any three.*
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PART - A

1. (a) Fill in the blanks : 1x5=5
- (i) Water with a low mineral content is called _____.
 - (ii) Absence of HCl in gastric juice is called _____.
 - (iii) Glycogen is stored in the _____.
 - (iv) All glass syringes can be sterilised in the _____.
 - (v) The magnification of an oil immersion objective (lens) is _____.
- (b) Answer **True** or **False** : 1x5=5
- (i) Chemical formula for sodium dihydrogen phosphate is NaHPO_4 .
 - (ii) Lipase is an enzyme which converts Fat into lipoproteins.
 - (iii) The temperature of the Hot air Oven is 160°C for one hour.

- (iv) Flagella are responsible for motility in bacteria.
- (v) The basic unit of the nervous system is nephron.

PART - B

2. Write short answers on : 2x5=10
- (a) Thyroxine
 - (b) pH
 - (c) Inspissation
 - (d) Microscope condenser
 - (e) CSF

PART - C

3. Write short notes on any four : 5x4=20
- (a) Uses of the centrifuge
 - (b) Gas sterilisation
 - (c) Uses of water bath in the lab
 - (d) Molar solution
 - (e) Functions of the Liver
 - (f) Meiosis

PART - D

4. Answer any three of the following : 5+2+3=10
- (a) (i) List the types of microscopes and their uses.
 - (ii) What is meant by 'Resolving Power' of a microscope ?
 - (iii) What is the total magnification obtained with the 10X Eye piece and the following objectives :
(A) 10X (B) 40X (C) 100X

- (b) (i) List the parts of the Urinary System.
(ii) Draw, Label and enumerate the functions of each of the parts of the NEPHRON. **2+8=10**
- (c) (i) Define percent solutions. **2+8=10**
(ii) Describe the different ways of expressing percent solutions.
- (d) (i) Define Sterilization. **2+2+6=10**
(ii) What is the principle of the autoclave ?
(iii) Describe its functioning.
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