

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

December, 2014

BAHI-001 : BASIC HUMAN SCIENCES

00274

Time : 3 hours

Maximum Marks : 70

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

PART - A

1. (a) Fill in the blanks : 1x5=5
- (i) Mature germ cell contain _____ chromosomes.
- (ii) Total absence of HCl in gastric juice is termed as _____.
- (iii) Chemical messenger secreted by a ductless gland is called _____.
- (iv) Chemical formula of sodium bicarbonate is _____.
- (v) The strength of electrical power is expressed in units called _____.

- (b) Indicate **TRUE** or **FALSE** for the following :
- (i) The beam of balance should be released when not in use. **1x5=5**
 - (ii) Nose piece is the optical part of a microscope.
 - (iii) Valency of calcium is two.
 - (iv) The zygote is the union between two gametes.
 - (v) The normal function of glomerulus is secretion.

PART - B

2. Write short answers of the following : **2x5=10**
- (a) Define Beer's law
 - (b) Difference between angle headed and swing out centrifuge
 - (c) Glycosuria
 - (d) Functions of CSF
 - (e) Insulin

PART - C

3. Write short notes on **any four** of the following : **5x4=20**
- (a) Hot air oven
 - (b) Water distillation
 - (c) Mitotic division of a cell
 - (d) Pancreas
 - (e) Functions of liver
 - (f) Nucleic acids

PART - D

4. Answer **any three** of the following : **10x3=30**
- (a) List the parts of urinary system and write the functions of each part. **4**
 - (b) Describe the structure of kidney and nephron with the help of diagram. **6**
5. Explain the structure and blood supply of the heart with suitable diagram. **10**
6. (a) List different types of balance. Describe the parts of an analytical balance with diagram. **6**
- (b) Factors affecting weighing measurement. **4**
7. (a) Define molar solution. **2**
- (b) Describe the method for the preparation of one molar sodium chloride solution. **8**
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