

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

June, 2011

BAHI-001 : BASIC HUMAN SCIENCES

Time : 3 hours

Maximum Marks : 70

- 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.**

PART - A

1. (a) Fill in the blanks **1x10=10**
- (i) The solution of known strength is known as _____
 - (ii) Valency of sodium is _____
 - (iii) The boiling point of water in Fahrenheit is _____
 - (iv) _____ is the chief muscle of respiration.
 - (v) Mature germ cell contain _____ chromosomes.

(b) Write *True* or *False*.

- (i) The brain and spinal cord covered by membranes known as meninges.
- (ii) Fallopian tube is a male genital organ.
- (iii) To observe microscopic studies in laboratories should be at least 36 inches.
- (iv) Dark field illumination blocked the central rays of light and directs peripheral rays against microscopic object.
- (v) The sinusoides of liver unite to form the hepatic veins which join together and empty into the superior vena cava.

PART - B

2. Write short answers on the following :

2x5=10

- (a) Sensitivity of a balance.
- (b) Uses of ultraviolet rays
- (c) Intestinal mucosa
- (d) Reticuloendothelial system.
- (e) Renal threshold

PART - C

3. Write short notes on *any four*

4x5=20

- (a) Buffer
- (b) Objectives of compound microscope
- (c) Methods of sterilization.
- (d) Structures and functions of pancreas.
- (e) Gastric juice
- (f) Bile salts and bile pigments.

PART - D

Answer *any three* questions

10×3=30

4. Describe structure and functions of cell. Illustrate and draw well labelled diagram.

 5. Describe the urinary system and functions of each part of the system.

 6.
 - (a) Define hormone.
 - (b) Enumerate endocrine glands.
 - (c) Describe the structure and functions of pituitary or adrenal glands.

 7.
 - (a) Describe the principle, structure, functions of photoelectric colorimeters.
 - (b) Explain in brief the safety measures of maintenance of photoelectric colorimeter.
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