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B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

December, 2012

00919

BAHI-001

BAHI-001 : BASIC HUMAN SCIENCES

Time : 3 hours

Maximum Marks : 70

Note :	PART-A contains ten objective questions.
	PART-B contains five short answer questions.
	PART-C contains six short notes, answer any four
	of them
	PART-D contains four essay questions, answer
	any three of them.

PART - A

1.	(a)	Fill i	n the blanks -	1x5=5
		(i)	is the largest organ of huma	in
			body.	
		(ii)	Valency of Potassium is	
		(iii)	The boiling point of water	in
			Fahrenheit at sea level is °]	F۰
		(iv)	The valve between the right atriu	m
			and right ventricle is called	
			valve.	
		(v)	The normal respiratory rate for a	an
			average healthy individual at rest	is
			around per minute.	

BAHI-001

P.T.O.

- (b) Write True or False for the following statement : 1x5=5
 - Fallopian tubes are a part of male reproductive system.
 - (ii) The cerebellum situated at the base of brain controls coordination and fine movement of human body.
 - (iii) Sterilization by hot air oven is done by using dry heat at 160°C for one hour.
 - (iv) It is possible to survive with just one kidney if the other one is damaged or donated.
 - (v) Hormones are the body's chemical messengers released from some glands.

PART - B

- 2. Write short answers on the following : 2x5=10
 - (a) Define colloid, giving an example of colloid substance present in an organ normally or abnormally.
 - (b) What is an Enzyme ? Give an example of enzyme used in clinical diagnosis.
 - (c) Expand the term D.N.A. What is its significance ?
 - (d) Clinical use of ultraviolet rays in diagnostic laboratory.
 - (e) Define buffer, giving an example of commonly used buffer in the laboratory.

PART - C

3. Write short notes on *any four*.

- (a) Objectives of compound microscope
- (b) Structure and Functions of liver
- (c) Gastric juice composition
- (d) pH and its significance
- (e) Blood pressure and its regularization
- (f) Renal Threshold and its importance

PART - D

Answer any three questions.

10x3=30

- **4.** Describe the structure and functions of human cell. Illustrate with the help of a labelled diagram.
- 5. Describe female reproductive system and functions of each part of the system
- **6.** Describe the role of medical laboratory in health care management and the responsibilities of a working technician.
- 7. Describe the principle, structure and functioning of photoelectric colorimeters. Write a note on safety and maintenance of the equipment.