

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY

Term-End Examination

December, 2013

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 in the blanks : 1x5=5
- (i) Chemical formula of sodium dihydrogen phosphate is _____.
 - (ii) An example of microscope immersion oil is _____.
 - (iii) _____ of buckets is essential and important before using a centrifuge.
 - (iv) _____ is a special structure for motility in bacteria.
 - (v) _____ is the enzyme which breaks down proteins and peptones into polypeptides.
- (b) Answer *True* or *False* : 1x5=5
- (i) Achlorhydria is reduced at scanty HCL in gastric juice.
 - (ii) Liver is the storage organ for glycogen

- (iii) Lipase enzyme converts fats to lipoproteins.
- (iv) Eye piece of microscope is NOT part of the optical system.
- (v) Boiling syringes for disinfection is NOT advised.

PART - B

2. Write short answers on : 2x5=10
- (a) Beers Law
 - (b) Resting point of a balance
 - (c) Temperature of hot air oven
 - (d) Enzymes in pancreatic juice
 - (e) Temperature employed in a water bath

PART - C

3. Write short notes on *any four* : 5x4=20
- (a) Seitz filter
 - (b) Cleaning of new glassware
 - (c) Valency
 - (d) Serial dilutions
 - (e) Meiosis
 - (f) Portal Vascular system

PART - D

Answer *any three* questions : 10x3=30

4. (a) (i) What are neutralization indicators ?
- (ii) How do they act ? 2+2+6=10
- (iii) Give two examples with their colour and pH range.
- (b) (i) What is CSF ? 1+3+6=10
- (ii) Where is it formed and what is its function ?
- (iii) What are meninges and what are their functions ?

- (c) (i) Define sterilization. **1+3+6=10**
(ii) Classify the methods of sterilization by HEAT.
(iii) Discuss sterilization by autoclaving including efficacy checking.
- (d) (i) Name the organs of the respiratory system. **4+6=10**
(ii) Explain the process of respiration.
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