B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

Term-End Examination

June, 2014

BAHI-006 : MICRO-BIOLOGY

Time : 3 Hours

Maximum Marks : 70

Note : Attempt all questions. Answers Part A, B, C as per directions.

PART - A

Answer any three questions. Each carries 10 marks. 10x3=30

- 1. (a) Classify all culture media and give examples 5+5 for each.
 - (b) Give two uses in the lab for each type of medium.

2. (a) Define :

- (i) Sterilisation
- (ii) Disinfection
- (b) Classify common disinfectants used in the hospital. Give examples for each.
- (c) How are the following sterilised ?
 - (i) Skin before drawing Blood for culture
 - (ii) Nutrient agar
 - (iii) Surgical gowns
 - (iv) Antibiotic solutions
 - (v) Work benches

2+3+5

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- 3. Describe the cultural characters of (a) Escherichia coli. 1+2+7(b) Name all infections it produces. (c) Discuss the laboratory diagnosis of urinary tract infection 4. (a) Describe the various methods of cultivation 5+5of Viruses. (b) List the Hepatitis viruses and their route of infection. PART - B 5. Write short notes on **any four** : 5x4=20(a) Widal test (b) Pneumococcus Aspergillus (c) (d) Lowenstein Jensen medium (e) MRSA Write briefly on any two : 6. 5x2 = 10Sterilisation by Filtration (a) (b) Dermatophytes Disc diffusion method of antibiotic (c) susceptibility testing PART - C Choose the single correct answer. 7. 1x5 = 5(a) Which one is a capsulated organism ? (i) Enterobacter
 - (ii) Klebsiella
 - (iii) Citrobacter
 - (b) Treponema pallidum causes :
 - (i) Syphilis
 - (ii) Varicella
 - (iii) Variola

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- (c) Bacillus anthracis or Anthraxbacillus is Gram positive
 - (i) anaeroble with spore
 - (ii) aerobe with spore
 - (iii) With 'Chinese letter arrangement'
- (d) Example of Acid fast bacillus is :
 - (i) Mycobacterium leprae
 - (ii) Meningococci
 - (iii) Clostridium tetani
- (e) Which **one** is associated with hospital associated infection ?
 - (i) Proteus species
 - (ii) Pasteurella
 - (iii) Pseudomonas aeruginosa

8. Fill in the blanks.

1x5=5

- (a) BCG vaccine produces immunity against
- (b) Salmonella typhimurium causes
 - marram caube
- (c) Cholera is caused by _____.
- (d) AIDS is caused by _____.
- (e) MRSA stands for _____.

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