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**B.Sc. IN MEDICAL LABORATORY TECHNOLOGY
(BMLT)**

Term-End Examination

June, 2012

BAHI-006 : MICRO-BIOLOGY

Time : 3 Hours

Maximum Marks : 70

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

PART-A

Answer *any Three* questions. Each carries *ten* marks. **10x3=30**

1. Define sterilisation and disinfection. Describe methods of sterilisation and their clinical importance.
2. Describe the basic principle and methods of antibiotic sensitivity testing.
3. Describe morphology, cultural characteristics, pathogenicity and laboratory diagnosis of corynebacterium diphtherae.
4. Enumerate spore bearing bacilli. Describe morphology, cultural characteristics, pathogenicity and laboratory diagnosis of clostridium tetani.

PART-B

5. Write short notes on *any four* of the following : **5x4=20**
- (a) Neissaria
 - (b) Streptococci
 - (c) BCG vaccine
 - (d) Tuberculin test
 - (e) Quality control in microbiology
6. Write briefly on *any two* of the following : **5x2=10**
- (a) Food poisoning
 - (b) Dermatophyte infections
 - (c) General properties and culture of virus.

PART - C

7. Choose the appropriate from the followings : $1 \times 5 = 5$

(a) Coagulase test differentiate :

A : Pathogenic and non pathogenic streptococci.

B : Pathogenic and non pathogenic staphylococci.

(b) Gram positive lanculate shape diplococci :

A : Pneumococci

B : Meningococci

(c) Lactose fermenting, non motile mucoid colonies on Mackon key media :

A : Klebsiella organisms

B : Esch coli

(d) Gram negative, non spore forming non lactose fermenting, urease positive, motile organism.

A : Cony bacterium diphtheriae.

B : Proteus organisms.

(e) Syphilis is caused by :

A : Treponema pallidum organism.

B : Borelia vincenti

8. Indicate True (T) or False (F) for the followings : $1 \times 5 = 5$

- (a) Causative organism for bacillary dysentery ()
is shigella group of organisms.
 - (b) Bacillus anthracis cause diphtheria. ()
 - (c) Candidiasis is fungal disease. ()
 - (d) Gas gangre is caused by clostridium botilism ()
organism.
 - (e) ELTOR vibrio causes cholera epidemics ()
recorded in India.
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