

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

00182

Term-End Examination

December, 2011

BAHI-006 : MICRO-BIOLOGY

Time : 3 hours

Maximum Marks : 70

PART - A

Answer *any three* questions :

10x3=30

1. Enumerate organisms causing urinary tract infections. Describe morphology, cultural characteristics, antigenic structure, laboratory diagnosis of Escherichia Coli.
2. Enumerate Gram positive cocci. Describe principle, procedure of Gram's staining.
3. How do you classify medias ? Describe selective medias for culture of Shigella group of organisms.
4. Describe morphology, cultural characteristics and pathogenicity of mycobacterium tuberculosis.

PART - B

5. Write short notes on *any four* of the following : **5x4=20**
- (a) Lepromin list
 - (b) Coagulase test
 - (c) Elek test
 - (d) Bacillus anthracis
 - (e) Pneumococci
6. Write briefly on *any two* of the following : **5x2=10**
- (a) Bacteriophage
 - (b) HIV and AIDS
 - (c) Candidiasis

- PART - C

7. Indicate *True* (T) or *False* (F) for the followings :

- (a) Pneumococci are Gram negative diplococci
- (b) Esch. coli is spore bearing, non lactose fermenting, non motile organism
- (c) Vibrio cholera is comma shape, actively motile Gram negative organism
- (d) Growth of corynebacterium diphtheriae is better in selective media like L.J. Media
- (e) Sabouraud's agar is commonly used in Large Laboratories for fungal culture as basic media.

1x5=5

8. Choose appropriate answer for the following : 1x5=5

- (a) _____ is moist heat steriliser
 - (i) Autoclave
 - (ii) Hot air oven
- (b) _____ is Gram negative Lactose fermenting organism.
 - (i) Streptococcus
 - (ii) Klebsiella sp.
- (c) _____ causes sexually transmitted disease affecting first genitalia.
 - (i) Gonococci
 - (ii) Meningococci

- (d) _____ stain is used for AFB detection.
- (i) Z.Nelson
 - (ii) Albert
- (e) _____ causes infective hepatitis.
- (i) Hepatitis B and C virus
 - (ii) E - B virus
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