

June, 2014

Maximum Marks : 70

10x3=30

- P.T.O.

3. (a) Describe the cultural characters of *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 of Viruses. 5+5
(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
(c) Aspergillus
(d) Lowenstein Jensen medium
(e) MRSA
6. Write briefly on **any two** : 5x2=10
(a) Sterilisation by Filtration
(b) Dermatophytes
(c) Disc diffusion method of antibiotic susceptibility testing

PART - C

7. Choose the single **correct** answer. 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

- (c) *Bacillus anthracis* or *Anthraxbacillus* is Gram positive
 - (i) anaerobe 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 _____ .
 - (c) Cholera is caused by _____ .
 - (d) AIDS is caused by _____ .
 - (e) MRSA stands for _____ .
- _____