DE-1332
M. Sc. (Medical Laboratory Technology)
(Sem. I) Examination
March / April - 2016
MLT-101 : General Microbiology

Time: 3 Hours] [Total Marks: 70

Instructions: (1)

Fill up strictly the details of signs on your answer book.

Name of the Examination:
M. Sc. (Medical Laboratory Technology) (Sem. I)

Name of the Subject:
MLT-101: General Microbiology

Subject Code No.: 1332 Section No. (1, 2,...): Nil

Seat No.:

Student's Signature

(2) Answer all the questions.
(3) Illustrate your answers with neat diagrams whenever necessary.
(4) Figures to the right indicate full marks of the questions.

1 Give detail answers: (any three) 18

(a) Biomedical waste management.
(b) Describe the principle and working of Fluorescence microscopy. State its uses in microbiology.
(c) Universal work precautions in microbiology laboratory.
(d) Describe bacterial spore.

2 Describe following: (any three) 18

(a) Enumerate different antibiotic susceptibility testing methods and describe in detail any one.
(b) Anaerobic culture methods.
(c) Stem sterilization under pressure.
(d) Enumerate different methods of gene transfer in bacteria and describe in detail any one.

[Contd...
Give answers: (any six)

(a) Identify the importance of Koch's postulates.
(b) Diagram the path of light through a compound microscope.
(c) Cell wall of gram positive bacteria.
(d) Flagella
(e) Continuous culture technique.
(f) Selective and differential culture media.
(g) Collection of blood specimen for culture.

Write short notes: (any four)

(a) Characteristics of an ideal disinfectant.
(b) Mechanism of action of various antimicrobial drugs.
(c) Enumerate different methods of gene transfer in bacteria and describe in detail any one.
(d) Dry heat sterilization.
(e) Phenotypic vs. genotypic variation.