DF-1496
M. Sc. (Medical Laboratory Technology) (Part-II) (Sem. III) Examination
March / April – 2016
MLT-302 : Clinical Including Systemic Bacteriology (Clinical Microbiology)

Time : 3 Hours
Instructions :
(1) Fill up strictly the details of signs on your answer book.
Name of the Examination :
M. SC. (MEDICAL LABORATORY TECHNOLOGY) (PART-II) (SEM. III)
Name of the Subject :
MLT-302 : CLINICAL INCLUDING SYSTEMIC BACTERIOLOGY
Subject Code No. : 1 4 9 6 Section No. (1, 2,....) Nil

(2) Draw figures wherever necessary.

1. Write on any TWO of the following: 18
   a) Discuss the mechanisms of antibiotic resistance in Staphylococcus aureus.
   b) Elaborate on pathogenicity and laboratory diagnosis of Pseudomonas aeruginosa.
   c) Describe pathogenesis & laboratory diagnosis of Actinomycetes.

2. Write short notes on any THREE of the following: 18
   a) Culture method and satelitism in Haemophilus influenzae.
   b) Explain the Kauffman-White scheme of classification of Salmonella.
   c) Lepromin test.
   d) Describe the tests to differentiate Streptococcus pneumoniae from other alpha haemolytic Streptococci.

3. Write on any THREE of the following: 18
   a) Give a detail account of toxigenicity test of Corynebacterium diptheriae.
   b) Explain the Lancefield classification of Streptococci.
   c) Enlist the human diseases caused by Chlamydiae, add a note on TRIC biovar.
   d) Describe standard tests for Syphilis.

4. Write briefly on any TWO of the following: 16
   a) Enlist the etiology of blood stream infections discuss its laboratory diagnosis.
   b) Give a detail account of Yersinia pestis causing plague.
   c) Pathogenesis & laboratory diagnosis of gas gangrene.

DF-1496] [ 100 ]