DF-1500
M. Sc. (Medical Laboratory Technology) (Part-II)
(Sem. III) Examination
March / April – 2016
MLT-304 : Clinical Microbiology With Recent
Advances
(Clinical Microbiology)

Time : 3 Hours] [Total Marks : 70
Instructions :
1. Give Detailed Answers (Any Two) (18)
   A. Compare and contrast bacteremia and septicemia, also mention laboratory diagnosis of any one.
   B. Discuss in detail about various causative agents and pathogenesis of meningitis and explain the transmission and its laboratory diagnosis.
   C. Discuss in detail the causative agents, sources, transmission and control measures of hospital acquired infections.

2. Comment on the following (Any Three) (18)
   A. Food poisoning
   B. Differences between endotoxins and exotoxins.
   C. Laboratory diagnosis Tuberculosis.
   D. Molecular techniques used for disease detection.
3. **Write Short Notes: (Any Three)**
   
   A. Encephalitis
   
   B. Clinical diagnosis of Vibrio Cholera.
   
   C. Zoonotic diseases
   
   D. Shigellosis

4. **Give Detailed Answers (Any Two)**

   A. Justify: Females are more prone to urinary tract infections. Which are the major pathogens causing UTIs. Describe its pathogenesis and laboratory diagnosis.

   B. Discuss in detail the causes of the emergence and reemergence of diseases. Give the scenario of such occurrences in India.

   C. What are the microbial mechanisms for the development of resistance to antimicrobial agents?