

Code No. 2358 / CORE

**FACULTY OF SCIENCE**

M.Sc. III-Semester Examination, January 2018

Subject : MICROBIOLOGY

Paper : II

Medical Bacteriology

Time : 3 hour :

Max. Marks : 80

**Note : Answer all questions from Part-A and Part-B. Each question carries 4 marks in Part-A and 12 marks in Part-B.**

**PART – A (8 x 4 = 32 Marks)**  
(Short Answer Type)

- 1 Factors influencing normal flora
- 2 Bacteria in tissues
- 3 Specific lab tests
- 4 Pathogenecity
- 5 Hemolytic streptococci
- 6 Syphilis
- 7 Dysentery
- 8 Tetanus toxoid

**PART – B (4 x 12 = 48 Marks)**  
(Essay Answer Type)

- 9 a) Write about the normal flora of eyes and nose, their characteristics and distribution.  
OR  
b) Explain about resident flora and normal flora of human gut and their role in maintaining human health.
- 10 a) Define infection and explain the types, sources and means of infection.  
OR  
b) Explain the protocols involved in specimen collection and transfer before going for diagnostic assays.
- 11 a) Write about *Corynebacterium diphtheriae*, pathogenesis, diagnosis and treatment.  
OR  
b) Compare the infections caused by *Neisseria meningitidis* and *Neisseria gonorrhoea* and diagnosis and preventive measures.
- 12 a) What is the causative agent of typhoid? Write about the cultural characteristics, antigenic variation and diagnostic test.  
OR  
b) Explain the wound infections caused by *S. aureus* and the complications involved in surgical patients.