



## ED-641

M.Sc. 3rd Semester  
Examination, March-April 2021

### MICROBIOLOGY

Paper - IV

Medical Microbiology - I

*Time* : Three Hours] [*Maximum Marks* : 80  
[*Minimum Pass Marks* : 16

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**Note** : Answer **all** questions in which question No.1 is compulsory. All questions carry equal marks. Illustrate your answer with suitable diagram wherever necessary.

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1. Write short notes on the following :
    - (a) Host-microbe interactions
    - (b) Immunoprophylaxis of *Streptococcus*
    - (c) Difference between Orthomyxo viruses and Paramyxo viruses
    - (d) Medical importance of *Ascaris*
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(Turn Over)

( 2 )

**Unit-I**

2. Elaborate on the normal microbial flora of human body and their medical implications.

**OR**

Write short notes on the following :

- (a) Mechanism of microbial pathogenesis  
(b) Types of infections

**Unit-II**

3. Elaborate the different diseases or infections caused by non-sporing anaerobes highlighting their pathogenesis and epidemiology.

**OR**

Write short notes on the following :

- (a) Chlamydiae  
(b) Lab diagnosis of *Salmonella typhi*

**Unit-III**

4. Discuss the life-cycle and pathogenesis of human immuno deficiency virus.

**OR**

Write short notes on the following :

- (a) Properties of adeno viruses  
(b) Classification of oncogenic viruses

( 3 )

**Unit-IV**

5. Describe the pathogenesis, clinical manifestations, laboratory diagnosis and treatment of candidiasis.

**OR**

Write short notes on the following :

- (a) Laboratory techniques used in detection of parasitic infections  
(b) Properties of mycotoxins