

MASTER OF SCIENCE (MICROBIOLOGY) (CBCS - 2018 COURSE)
M.Sc. (Microbiology) Sem-IV :SUMMER- 2022
SUBJECT : MEDICAL MICROBIOLOGY

Day : Tuesday
Date : 5/7/2022

S-18601-2022

Time : 03:00 PM-06:00 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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Q.1 Describe the etiology, pathogenesis and laboratory diagnosis of 'Tuberculosis'. (15)

OR

What are nosocomial infections? Discuss nursing precautions and isolation policies for infected individuals.

Q.2 a) Using suitable diagram, discuss the antigenic structure of 'Hepatitis B' virus. (08)

b) Explain 'Mycolic acid' based invasion of *Mycobacteria*. (07)

Q.3 Attempt **ANY THREE** of the following: (15)

a) Explain molecular interactions between 'Human Rhinovirus' and 'ICSM-1' for the development of 'common cold'.

b) Describe the interaction of 'Influenza Virus' with host cell.

c) Enlist common pathogens developing infective endocarditis and mention the medical significance of the symptom.

d) Discuss the 'Cutaneous symptoms' and 'Genital symptoms' of Herpes Virus.

e) What is 'Dengue Shock Syndrome'? Describe cellular parameters of 'Dengue' patient.

Q.4 Write short notes on **ANY THREE** of the following: (15)

a) Toxins of *Vibrio cholerae*

b) Antigenic properties of *Neisseria gonorrhoeae*

c) Pyrexia

d) Vesicular eruptions

e) Symptoms of 'Systemic Candidiasis'

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