

Exam.Code:0003
Sub. Code: 0281

2022

B.A./B.Sc. (General) Third Semester
Microbiology
MIC-301: Introduction to Medical Microbiology - I

Time allowed: 3 Hours

Max. Marks: 33

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV

x-x-x

UNIT - I

- I. Differentiate between the following:-
- a) Endemic, Epidemic, Pandemic (2½)
 - b) Mortality / Morbidity (2)
 - c) Disease / Infection (2)
- II. Describe infectious disease cycle. Discuss the importance of each stage. (6½)

UNIT - II

- III. a) Describe nomenclature. (2)
b) What are firmicutes? (2)
c) Discuss the importance of Bergey's manual of systematic bacteriology. (2½)
- IV. Discuss the main criteria used for the classification of micro-organism. (6½)

UNIT - III

- V. Describe the importance of different microbial enzymes in the disease process. (6½)
- VI. a) What are adhesive? Name the bacterial structures that act as adhesive.
b) Describe non-specific immune mechanisms, which bacterium faces following penetration in body. (2,4½)

UNIT - IV

- VII. a) How will you determine the antimicrobial activity of a drug?
b) Describe the mechanism of action of
i) Penicillin
ii) Tetracycline
iii) Sulphonamide (3½,3)
- P.T.O.

- VIII. a) Discuss general characteristics of antimicrobial drugs.
b) Differentiate between MIC and MBC of a drug.

(3½.3)

UNIT - V

- IX. Describe the following:-

- a) Phylogeny
- b) Coagulase
- c) Bacteriostatic
- d) Chronic infection
- e) Chemotherapy
- f) Pinocytosis
- g) Vector

x-x-x

(7x1)

C4KNOWLEDGESEEKERS