



RAN - 2203000205026002

RAN-2203000205026002

T. Y. B. Sc. (Sem. - V) Examination March - 2023

Microbiology : MB-502

Basics of Immunology

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Sem. - V)

Name of the Subject :

Microbiology : MB-502 Basics of Immunology

Subject Code No.: 2203000205026002

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labeled diagrams wherever necessary.

Q-1: Give specific answers:

(12)

- Define: Antigen and Immunogen
- What are Haptens? Write its example
- What are Superantigens? Write its suitable example.
- Enlist cardinal signs of inflammation.
- What are Systemic autoimmune diseases? Give its example.
- What are allografts and xenografts?

Q-2: Explain / Comment on Any Two of the following:

(12)

- Comment: "Skin: the first line of defence".
- Justify: CLR and TLR play vital role in phagocytosis.
- Explain: There are five classes of immunoglobulins.

Q-3: Answer any Two of the following in detail: (16)

- a. Role of antimicrobial peptide and protein in innate immunity.
- b. Describe: The major Histocompatibility Complex.
- c. Type I and II hypersensitivity.

Q-4: Write Short notes on Any Two of the following: (10)

- a. T-independent B-cell activation.
 - b. Monoclonal antibody technology.
 - c. Acquired immune tolerance.
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