



RAN-2203000205026002

T.Y.B.Sc. (Sem. - V) Examination October - 2025

Microbiology (Mb-502-Basics of Immunology : Old)

[Total Marks: 50

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Sketch neat and labelled diagram wherever necessary.
- (3) Figures to the right indicate full marks of the question

Seat No.:

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Student's Signature

Q. 1 Give Specific answers:

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- a) Define : Bacteriocins
- b) Define: Innate resistance.
- c) Elaborate MHC.
- d) State the function of B cells.
- e) Give the importance of monoclonal antibodies.
- f) Define: Vaccine
- g) State Immunodeficiency with one example
- h) Define: Immune tolerance.

Q. 2 Explain/comment on any two of the following:

14

- a. Describe the structure, types, and functions of granulocytes.
- b. Explain the mechanism of Type I Hypersensitivity reaction
- c. Explain sequential events of an inflammatory reaction.

Q. 3 Answer any two of the following:

14

- a. Give detail account on Primary immune organs.
- b. Explain Immunoglobulin structure with diagram.
- c. Discuss T cell independent activation of B cell.

Q. 4 Write short note on any two of the following:

14

- a. Phagocytosis
- b. Antigen
- c. Transplant rejection