

RAN-2303230201020002
PGDMLT (Sem. I) Examination November - 2025
1002 - Immunology
Time: 3 Hours]
[Total Marks: 70
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Draw diagrams wherever necessary.
- (3) Figures to the right indicate the marks allotted to the questions.

Seat No.:

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Student's Signature

Q. 1. Answer in one or two sentences each: (Any 7) (14)

1. What is organ-specific autoimmune disease? Give one example.
2. What is the difference between antigenicity and immunogenicity?
3. What is Laurell's two-dimensional electrophoresis? Mention one application of Laurell's 2D electrophoresis.
4. Which vaccines are given at birth in India?
5. Write one difference between organ-specific and non-organ specific autoimmune diseases.
6. Name two precipitation tests performed in solution.
7. Define active immunity. What are the two types of active immunity?
8. Define Polyclonal Antibody. Name two animals commonly used for laboratory production of polyclonal antibodies.

Q. 2. Attempt any two of the following: (14)

1. Explain the Flowchart of Immunity.
2. Discuss the different types of vaccines. Name commonly used vaccines and the diseases they prevent.
3. Differentiate between innate and acquired immunity with suitable examples. Explain their role in protection against infectious diseases.

Q. 3. Answer any two of the following: (14)

1. What is Antibody? Mention the differences between monoclonal and polyclonal antibodies.
2. Mention the five classes of immunoglobulins and give function.
3. Write an essay on antigen-antibody specificity and the factors affecting their binding.

Q. 4. Answer short notes on any two of the following: (14)

1. Explain the principle, procedure, and applications of precipitation reactions.
2. Write an assay on immunofluorescence.
3. Write a note on types of ELISA

Q. 5. Answer any two of the following: (14)

1. Difference between Immediate and delayed hypersensitivity.
2. Primary & secondary Immunodeficiency Disorders
3. Discuss Mechanism of Autoimmune Disorder