

V (Printed Pages 3)

(21225) Roll No. ....

M.Sc.-III Sem.

**PG-3637**

**M.Sc. Examination, Dec.-2025**

**MEDICAL MICROBIOLOGY**

**(Molecular Immunology)**

**(MM-301)**

*Time : Three Hours ] [Maximum Marks : 50*

**Note :** Attempt questions from **all** sections  
as per instructions.

**Section-A**

**(Very Short Answer Type Questions)**

**Note :** Attempt all **five** questions.  $5 \times 2 = 10$

1. Define Acquired immune response.
2. Define Isotypes with suitable example.

**P.T.O.**

3. Define secondary serological test with suitable example.
4. Define Ideal vaccine.
5. Define Haptens with suitable examples.

**Section-B**

**(Short Answer Type Questions)**

**Note :** Attempt any **two** questions.  $2 \times 5 = 10$

6. Describe secondary immune response and role of lymphoid cells.
7. Describe major histocompatibility complex-class I with suitable labelled diagram.
8. Define complement and its role in acquired immune response.
9. Define Hypersensitivity and its classification.

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## Section-C

### (Detailed Answer Type Questions)

**Note :** Attempt any **three** questions.

3×10=30

10. Define monoclonal antibody and detail hybridoma technology.
11. Vaccine and vaccination are backbone of modern immunology. Describe.
12. Describe Immuno assays and details about ELISA's its type.
13. Describe immune system its organs and role in immune response.
14. Write an essay on immunity against viral infections.