

2203000205026002
EXAMINATION FEBRUARY -MARCH 2024
BACHELOR OF SCIENCE (FIFTH SEMESTER)
MICROBIOLOGY-XII (MB-502-BASICS OF IMMUNOLOGY)
LEVEL 2

[Time: As per schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
- b. Name of the Subject : **MICROBIOLOGY-XII (MB-502-BASICS OF IMMUNOLOGY) LEVEL 2**
- c. Subject Code No : **2203000205026002**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Give Specific Answers:

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- a. What is cytokines?
- b. Enlist secondary immune organs.
- c. Define: Antigen
- d. Give example of artificially acquired passive immunity.
- e. Define: Phagocytosis
- f. Which antibody is abundant in mucous secretion?
- g. What is hypersensitivity?
- h. Define: Allograft.

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

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- a. Different cells of immune system
- b. Comment: "MHC is collection of genes encoding proteins that enable the host to distinguish between self and non self".
- c. What is monoclonal antibodies? Explain its production in detail.

Q.3 Answer any two of the following:

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- a. Write a detail account on primary immune organs.
- b. Discuss activation of B cell in detail.
- c. Discuss various systematic autoimmune disease.

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

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- a. Skin as a physical barrier.
- b. Types of antibodies.
- c. Immunodeficiency
