

2303230201020002
EXAMINATION FEBRUARY-MARCH 2024
POST GRADUATE DIPLOMA IN MEDICAL LABORATORY
TECHNOLOGY (FIRST SEMESTER)
IMMUNOLOGY (THEORY)-LEVEL 2

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **POST GRADUATE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (FIRST SEMESTER)**
 - b. Name of the Subject : **IMMUNOLOGY (THEORY)-LEVEL 2**
 - c. Subject Code No : **2303230201020002**
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 Answer in one or two sentences each: (Any 7):

14

1. What are natural killers cells?
2. Give two examples of live and attenuated vaccines.
3. Give the applications of monoclonal antibodies.
4. How can immunoglobulin be classified based on the H chain?
5. Write the principle of RIA.
6. Explain in brief indirect ELISA.
7. Elaborate: SLE and RA
8. Give two suitable examples to explain delayed hypersensitivity reactions.

Q.2 Attempt any two of the following:

14

1. Explain in brief about cells of immune system.
2. Active Immunity v/s Passive Immunity
3. Types of vaccines.

Q.3 Answer any two of the following: 14

1. Describe the structure of immunoglobulins.
2. Give the classification and explain the properties of Antigen.
3. Write a brief note on monoclonal antibodies.

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

1. Write a note on principle, procedure and clinical applications of various agglutination reactions.
2. Describe radial electrophoresis, rocket electrophoresis and counter immunoelectrophoresis.
3. Write a short note on Immunofluorescence.

Q.5 Answer any two of the following: 14

1. Explain the mechanism of autoimmune diseases.
2. Classify Hypersensitivity reactions and explain immune complex mediated hypersensitivity reactions.
3. Discuss in detail primary immunodeficiency disorders.
