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NY—04—2023

FACULTY OF SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

MICROBIOLOGY

Paper-XI (MB-301)

(Molecular Immunology)

(Tuesday, 5-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (1) Attempt *all* questions.

(2) Answer to the point only.

(3) Represent your answers with diagrams if necessary.

1. Illustrate structure and functions of primary lymphoid organs. 15

Or

Explain in detail structure and functions of Granulocytes.

2. Define Adjuvant. Write in detail structure and functions of Adjuvants. 15

Or

Illustrate structure, properties and functions of IgG and IgE.

3. Take an account of modes for generation of antibody diversity. 15

Or

How many types of light chains are there in immunoglobulin ? Write on multigene organisation in light chain.

P.T.O.

WT

(2)

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4. Explain in detail haemolytic autoimmune diseases.

15

Or

Describe processing and presentation of exogenous antigens.

5. Write short notes on (any *three*) :

15

(a) T-lymphocytes

(b) Superantigens

(c) P & N nucleotide addition

(d) Minor MHA molecule.

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