


RAN-2503000505028001

T.Y.B.Sc. (NEP) (Sem. - V) Examination October - 2025
Bioscience (Microbiology) - Major
(Paper - BM-MJ-502) Fundamentals of Immunology

Time: 1 Hour]
[Total Marks: 25
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat & clean diagram wherever necessary.

Seat No.:

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Student's Signature

Q.1. Multiple choice questions (MCQ) Any Five.
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1. Blood group antigens are
 - a. Species specific
 - b. Isospecific
 - c. Auto specific
 - d. Organ specific
2. T-cells are produced from
 - a. Bone marrow
 - b. Thymus
 - c. Spleen
 - d. None
3. Natural killer cells
 - a. Belongs to B-cell lineage
 - b. Belongs to T-cell lineage
 - c. Display cytotoxic effect on tumor cell
 - d. Require previous antigen exposure for activation
4. An antibody mediated phagocytosis is known as
 - a. Opsonization
 - b. Viral neutralization
 - c. Compliment fixation
 - d. All
5. An example of passive agglutination is
 - a. RA test
 - b. Widal test
 - c. Ring test
 - d. None
6. Which of the following is the Type I localized reaction?
 - a. Rhinitis
 - b. Asthma
 - c. Food allergy hives
 - d. All

Q.2. Write an essay on - Physicochemical properties of an Immunoglobulin
10
OR
Q.2. Answer the followings.
10

1. Discuss the nonspecific internal defence system.
2. Briefly describe the active & passive immunity.

Q.3. Write an essay on - Hybridoma technique. **10**

OR

Q. 3 Answer the following questions. **10**

1. Describe in brief the Complement fixation reaction.
 2. Write a note on - Immunochromatographic test.
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