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SUBJECT CODE NO: - FNP-6234
FACULTY OF SCIENCE AND TECHNOLOGY
MSC. F.Y. (SEM-II) (NEP Pattern-2023-2024) Zoology
Examination November / December 2025
Immunobiology - SAC165522T

[Time: 1:30 Hours]

[Max. Marks: 45]

Please check whether you have got the right question paper.

N. B

1. Question number 1 is compulsory.
2. Draw neat labelled diagram whenever necessary

Q1 Attempt the following multiple choice questions:**10**

1. Which of the following is not a physical barrier of innate immunity?
 a) Lysozyme b) Skin c) Cilia d) Antibodies
2. Which organ is a primary lymphoid organ?
 a) Thymus b) Tonsils c) Spleen d) Lymph node
3. T cells recognize antigen only when presented with:
 a) BCR b) Cytokines c) Free floating antigens d) MHC molecules
4. Where does T cell development occur?
 a) Bone marrow b) Thymus c) Spleen d) Lymph nodes
5. Which immunoglobulin is key in allergic response?
 a) IgA b) IgG c) IgE d) IgM

Q2 Short notes (any three).**15**

- a) Innate immune barriers
- b) Antigen specificity and diversity
- c) T cell receptors
- d) VDJ recombination
- e) Secondary immunodeficiency diseases

**Q3 Long answer questions (any two).****20**

- a) Discuss the role of cytokines in innate immune responses. Classify them based on function.
- b) Explain the mechanisms of antigen recognition by B cells and T cells, including receptor-ligand interactions
- c) Write a detailed note on the structure, types, and functions of the Major Histocompatibility Complex (MHC).