



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI – ABUJA
FACULTY OF SCIENCE
Department of Biological Sciences
2025_2 EXAMINATIONS

BIO 318: Immunology and Immunochemistry

Time: 2½ Hours

Credit Units: 3

Instruction: Attempt FOUR (4) questions only. QUESTION 1 is compulsory.

1a. List six cellular components of innate system. **(3marks)**

1b. State and briefly explain the two major types of immunization. **(7marks)**

1c. Discuss the three (3) factors that influence autoimmunity. **(15marks)**

Total Marks = (25 marks)

2a. Write an explanatory note on the components of the immune system. **(7marks)**

2b. Define the term 'hypersensitivity' and outline five (5) major types of hypersensitivity. **(8marks)**

Total Marks = (15 marks)

3. List and explain three (3) classes of antifungal agents based on their mode of action. **(15marks)**

Total Marks = (15 marks)

4a. State five (5) types of vaccine based on strategy to reduce risk. **(5marks)**

4b. Discuss Pharmacodynamics. **(10marks)**

Total Marks = (15 marks)

5a. Explain the following immune responses to tissue graft

i. Autograft **(2marks)**

ii. Allograft **(3marks)**

5b. Discuss the cell division process in relation to tumor growth. **(10marks)**

Total Marks = (15 marks)

6a. Write notes on any three (3) of the following features or properties of adaptive immune response. **(6marks)**

i. Specificity

ii. Diversity

iii. Memory

iv. Specialisation

v. Self- limitation

6b. Explain the development of T- lymphocytes in thymus. **(9marks)**

Total Marks = (15 marks)