



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE
EXPRESS WAY, JABI - ABUJA.
FACULTY OF SCIENCE
Department of Biological Sciences
2025_2 EXAMINATIONS

BIO 406: Parasitology and Immunology

TIME: 2Hours

CREDIT UNITS: 2

INSTRUCTION: Attempt THREE (3) questions in all . Question 1 is compulsory

- 1a. Explain the artificially acquired passive immunity **(7marks)**
1b. Discuss in detail the action of phagocytic cells as mechanisms of non-specific immunity to Infection **(10marks)**

- 1c. Write concise notes on the following
i. Tumour antigens **(6marks)**
ii. Type III hypersensitivity **(7marks)**

Total 30 marks

- 2a. State the four (4) major types of hypersensitivity **(4marks)**
2b. Discuss tissue typing as a way of preventing graft rejection **(8marks)**
2c. Distinguish between specificity and cross reactivity **(8marks)**

Total 20 marks

- 3a. Define the term 'Innate Immunity' **(2marks)**
3b. Enumerate four (4) types of traditional vaccines **(8marks)**
3c. Explain the environmental factors that cause autoimmunity **(10marks)**

Total 20 marks

- 4a. Discuss T-Cell-B-Cell discordance as a mechanism in the pathogenesis of autoimmune diseases **(5marks)**
4b. Highlight briefly the uses of immunosuppressants **(6marks)**
4c. Explain the exogenous antigens **(9marks)**

Total 20 Marks

- 5a. Outline the characteristics of a secondary immune response **(5marks)**
5b. Highlight the Surface/mechanism barriers as a non-specific resistance **(5marks)**
5c. Discuss the role of cell-mediated immunity **(10marks)**

Total 20 marks