



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
DEPARTMENT OF BIOLOGICAL SCIENCES
2024_2 EXAMINATION

COURSE CODE: BIO 406

COURSE TITLE: PARASITOLOGY AND IMMUNOLOGY

CREDIT UNIT: 3

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3) QUESTIONS

- 1a. Explain the first clinical description of immunity. (6mrks)
- 1b. Justify when to use Passive immunisation (4mrks)
- 1c. State the Advantages and disadvantages of active immunity (5mrks)
- 1d. With the aid of graphical representation, describe the time course of an Immune Response due to the formation of immunological memory. (10mrks)

- 2a. What are Dendritic Cells? (7mrks)
- 2b. How do each cell in the innate immune system bind to antigen? (8mrks)
- 3a. Identify the diseases caused by the following organisms; *H. pylori* and Methicillin-resistant *Staphylococcus aureus*. (6mrks)
- 3b. Write short notes on the following bacterial infection; (i) Chronic ear infections (ii) Osteomyelitis (iii) Lyme disease. (9mrks)
- 4a. What is Affinity and Avidity?. With the aid of a single Y model of antibody differentiate between affinity and avidity. (10marks)
- 4b. Being that there is High degree of specificity in antigen-antibody reactions. Identify how antibodies distinguish differences in antigens. (5mrks)
- 5a. Mention the affected parts in Type III Hypersensitivity reaction. And Diagrammatically express the Mechanism of Damage in Immune Complex Hypersensitivity caused by platelets. (10mrks)
- 5b. What is Autoimmunity? Justify why low level autoimmunity is healthier. (5mrks)

- 6a. Write on (i) Xenograft (ii) Split transplants (6mrks)
- 6b. Support with Evidence that Graft Rejection is Immunological. (9mrks)