



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja  
Faculty of Sciences  
Department of Pure and Applied Sciences  
**2023 2 EXAMINATIONS**

**COURSE CODE: BIO406**

**COURSE TITLE: PARASITOLOGY AND IMMUNOLOGY**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

**INSTRUCTION: Answer question ONE (1) and any other THREE (3) questions**

- 1(a) Write short notes on the following; (5mks)  
(i.) Autograft (5mks)  
(ii.) Allograft and allotransplantation (3mks)
- (b) (i.) Why is graft rejection immunological? (2mks)  
(ii.) What do you understand by Cross reactivity? (10mks)
- (c) Account for the main causes of Autoimmunity? (10mks)
- 2(a) Give a brief description of Antigenic affinity (3mks)
- (b) Outline the major lymphokines involved in delayed hypersensitivity reaction (4mks)
- (c) Write succinctly on the four types of traditional vaccines or vaccinations (8mks)
- 3(a) List the three types of Endogenous antigens (3mks)
- (b) Describe the following terms:  
(i) Autoantigens (3mks)  
(ii) Antigen Specificity (3mks)  
(iii) Nativity (3mks)
- (c) Describe the process of Lymphocyte – mediated Rejection (3 marks)
- 4(a) Write briefly on Passive transfer of cell-mediated immunity (5mks)
- (b) Innate Immunity system is nonspecific and in-born. Discuss (10mks)
- 5(a) Account for Humoral Immunity (6 mks)
- (b) Give a detailed description of cell-mediated immunity (9 mks)