



# NATIONAL OPEN UNIVERSITY OF NIGERIA

National Open University Of Nigeria

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja

Faculty of Science

OCTOBER/NOVEMBER 2016 EXAMINATION

**COURSE TITLE: IMMUNOLOGY AND IMMUNOCHEMISTRY**

**COURSE CODE: BIO 318**

**TIME ALLOWED: 2 HOURS**

**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS**

1. (a). What is immunopathology? Discuss the immunopathology of a virus infection. **10 marks**  
(b). How are antibodies classified? **5 marks**  
(c). The adaptive immune response involves production of antibodies against a particular pathogen. Discuss **10 marks**
  
2. (a). What are the organs of the immune system and what do they do in the body? **5 marks**  
(b). Using an annotated diagram, show the components of the immune system in the body. **10 marks**
  
3. Discuss briefly the following:  
(i). Myeloid cells. **5 marks**  
(ii). Antigenic Determinants **5 marks**  
(iii). Types of adaptive immune response **5 marks**
  
4. How does adaptive immune response differ from innate immune response in property? **15 marks**
  
5. Discuss three possible causes of auto immunity. **15 marks**
  
6. (a). Give four common terms used to classify a tissue graft, according to its origin and possible outcome in the host? **4 marks**  
(b). i. What is drug sensitivity test? **1 mark**  
ii. Explain the process of pharmacokinetics by the following: Absorption, distribution, metabolism and excretion. **10 marks**

