



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**  
**SCHOOL OF HEALTH SCIENCES**  
**MARCH/APRIL 2015 EXAMINATION**

**COURSE CODE: CHS317**

**COURSE TITLE: IMMUNOLOGY AND IMMUNIZATION**

**Time allowed: 2 hours**

**Instructions: Answer question 1 (compulsory), and any other 3 questions.**

1. (a) Using five examples differentiate between innate immune system and acquired immune system.  
10 marks
- (b) What is the difference between immunodeficiency and autoimmunity?  
5 marks
- (c) List five components of the immune system.  
5 marks
- (d) List 5 secondary lymphatic tissues.  
5 marks
2. (a) What is active immunization?  
5 marks
- (b) Write short notes on natural immunization.  
5 marks
- (c) Write short notes on passive immunization  
5 marks
3. Write short notes on the following
- (a) B-lymphocytes  
5 marks
- (b) T-lymphocytes  
5 marks

- (c) Antigen – presenting cells  
5 marks

4. (a) What is hypersensitivity?  
7 marks

- (b) Enumerate the different types of hypersensitivity reactions, highlighting the immunoglobulin responsible for each of the reactions.  
8 marks

5. (a) Using examples differentiate between live and inactivated vaccines.  
8 marks

- (b) List seven vaccines that are included in the National Programme of Immunization (NPI).  
7 marks