



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**  
**SCHOOL OF SCIENCE AND TECHNOLOGY**  
**MAY/JUNE 2012 EXAMINATION**

HEM 626- Clinical, Diagnostic and Therapeutic Services in HIV/AIDS (2 CR)

TIME ALLOWED: 2HRS

INSTRUCTIONS: There are six questions to answer four. All questions carry equal marks (25%) each.

**QUESTION 1**

- a. What is HIV/AIDS? (5marks)
- b. What is a retrovirus? Give examples of human retroviruses. (4marks)
- c. How does HIV replicate? (7marks)
- d. Name the two major antigens of HIV and what are the differences between them? (9marks)

**QUESTION 2**

- a. Draw a labelled diagram of HIV structure (25 marks)

**QUESTION 3**

- a. What are the factors contributing to HIV spread in Nigeria? (17marks)
- b. List the HIV vulnerable groups in most industrialized countries. (8marks)

**QUESTION 4**

- a. How will you isolate and culture HIV cell? (9marks)
- b. Discuss the types of HIV culture tests you know and their disadvantages (16marks)

**QUESTION 5**

- a. List the steps of HIV Life cycle.(8marks)
- b. Explain the two types of acquired immunity? (13 marks)
- c. What are T-cells? (4marks)

**QUESTION 6**

- a. What is an opportunistic infection?(4marks)
- b. List the major opportunistic infections. (11marks)
- c. What is window period? (5marks)
- d. How do you know that a test kit is working well? (5marks)