



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

14/16, Ahmadu Bello Way, Victoria Island

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**October, 2013 Examination**

HIV/AIDS Education and Management

**Course Code: HEM 726:**

**Course Title: Clinical, Diagnostic and Therapeutic Services of HIV/AIDS**

**Course Credit: 2 Units**

**TIME: 2 Hours**

**Instructions:** Six questions to answer four. Question 1 is compulsory and carries 25%.

Questions 2-6 carry equal marks (15%) each.

**QUESTION 1**

- a. Define HIV and AIDS (5 marks)
- b. Draw neatly and label clearly the structure of HIV. (20 marks)

**QUESTION 2**

- a. What is the full meaning of CD4s? (3 marks)
- b. List 4 other names of CD4 cells (4 marks)
- c. Is CD4s count affected by period of the day it was taken? Expatriate (3 marks)
- d. Is it possible to have low CD4 count without HIV infection? Discuss (5 marks)

**QUESTION 3**

3a. In a tabular form, describe the characteristics of the following: (15 marks; 3 ½ marks)

- a. HTLV1
- b. HTLV2
- c. Human Foamy virus
- d. Human genome viruses

**QUESTION 4**

- 4a. Differentiate between humoral immunity and cell mediated immunity. (5marks)
- 5a. What do you understand by Interferons? (10marks)

**QUESTION 5**

- 5a. Differentiate between Prevalence and Incidence of a disease. (7 marks)
- 5b. List the advantages and disadvantages of prevalence. (8 marks)

**QUESTION 6**

- a. Name the biological class HIV belongs and why? (3marks)

- b. What is the biological family of HIV?  
**(2marks)**
- c. List the major opportunistic infections.  
**(10marks)**