



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
JANUARY/FEBRUARY 2013 EXAMINATION

Programme: PGD HIV/AIDS Education and Management
Course Code: HEM 702 **Course Credit Unit:** 3
Course Title - Basics of HIV/AIDS **Time Allowed:** 3 hours
Total Score: 100 marks

Instruction: Answer 5 questions

Question 1:

- a) What type of Virus is HIV? **(5 marks)**
- b) HIV is believed to be a descendant of a Simian Immunodeficiency Virus because ----- **(5 marks)**
- c) In February 1999 a group of researchers from the University of Alabama reported landmark findings on the origin of HIV. Identify at least 5 of their findings **(10 marks)**

Question 2:

Give a brief description of the following theories of HIV

- a. The Hunter Theory **(5 marks)**
- b. The Oral-Polio Vaccine Theory (5 marks)**
- c. The Contaminated Needle Theory (5 marks)**
- d. The Colonialism Theory (5 marks)**

Question 3:

- a) Identify three of the earliest known instances of HIV infection **(6 marks)**
- b) HIV primarily infects vital cells in the human immune system through three main mechanisms. Identify them **(6 marks)**
- c) The three enzymes inside the viral core of HIV which are required for HIV replication are called: ---- **(6 marks)**
- d) HIV particles surround themselves with a coat of fatty material known as the viral: --- (2 mark)**

Question 4

- a) Briefly describe the following terms:
 - i. Prevalence, ii Incidence, iii Endemic, iv Pandemic, v Epidemic **(10 marks)**
- b) Identify steps in HIV replication cycle **(10 marks)**

Question 5

- a. In the nineteenth century, the German scientist Robert Koch developed a set of postulates to guide people who are trying to prove that a germ causes a disease. Identify the postulates (12 marks)**
- b. Enumerate the assumptions of the Conspiracy Theory (8 marks)**

Question 6

Explain what happens in the body when an individual is infected with HIV **(15 marks)**

List 10 late symptoms of HIV **(5 marks)**

Question 7:

- a)** What are the 3 requirements for HIV prevention? **(6 marks)**
- b)** Identify 7 practical excuses and answers on how to persuade a sexual partner to use condom? **(14 marks)**

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