

**JARAMOGI OGINGA ODINGA UNIVERSITY OF  
SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**BUSIA LEARNING CENTRE**

**UNIVERSITY EXAMINATIONS 2013/2014**

**FIRST YEAR DIPLOMA IN COMMUNITY HEALTH &  
DEVELOPMENT AND DIPLOMA IN BUSINESS ADMINISTRATION**

**HDC 2112: HIV AND AIDS**

**AUGUST 2013 TIME: 9 AM – 11AM**

**INSTRUCTIONS**

1. This paper contains TWO sections.
2. Answer ALL questions in section A and ANY OTHER two questions in section B.
3. Write all answers in your answer sheets provided.
4. Write your registration number in all examination booklets.

**Section A: Answer ALL questions in this section (30 marks)**

1. State the meaning of the word AIDS (3 Marks)
2. State the most common mode of HIV transmission in Kenya ( 3 marks)
3. Outline three risk factors for mother to child transmission of HIV (3 Marks)
4. State any three structural/biological components/parts of the HIV virus (3 marks)
5. State three factors fuelling the spread of HIV in Africa (3 marks)

6. List three types of opportunistic infections which are common in HIV positive patients **(3 marks)**
7. Describe what you understand by the term “ **highly active antiretroviral therapy**” **(3 marks)**
8. List any three clinical conditions associated with HIV WHO stage 3. **(3 marks)**
9. State any three myths/misconceptions associated with HIV infection in Kenya **(3 marks)**
10. State any three side effects of protease inhibitors **(3 marks)**

**Section B: Answer ANY TWO questions from this section (30 MARKS)**

1. Discuss the seven steps of the lifecycle of HIV virus **(15 marks)**
2. Discuss anti-retroviral drugs under the following subheadings.
  - a. Classification and mechanism of action **(6 marks)**
  - b. Criteria for initiation of treatment **(3 marks)**
  - c. Side effects of each class of anti-retroviral drugs **(6 marks)**
3. Outline in detail the comprehensive care and support of a patient with HIV/AIDS under the following subheadings;
  - a. Physical care **(4 marks)**
  - b. Social Care **(3 marks)**
  - c. Psychological/emotional care **(3 marks)**
  - d. Spiritual care **(2 marks)**
  - e. Home based care **(3 marks)**
4. Discuss prevention of HIV infection under the following subheadings.
  - a. Prevention of sexual transmission **(5 marks)**
  - b. Prevention of transmission through blood transfusion/blood handling **(3 marks)**
  - c. Prevention of mother to child transmission **(4 marks)**
  - d. Prevention through care of contaminated implements **(3 marks)**