



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**  
**(COMMUNITY HEALTH AND DEVELOPMENT)**  
**1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER 2013/2014 ACADEMIC YEAR**  
**CENTRE: KISUMU**

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**COURSE CODE: HCD 3112**

**COURSE TITLE: HIV AND AIDS**

**EXAM VENUE: STREAM: BSc.Com. Health & Deve, BSc.Public Health.**

**DATE: 4/12/2013 EXAM SESSION: 11.30 – 1.30 PM**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer ALL questions in section (A) and ANY other 2 questions in section B**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

## **Section A**

1. List the five levels in which human body is organized. (3 marks)
2. Explain briefly the two pathways of lymphatic cell development. (3 marks)
3. Explain the role played by the enzyme Reverse Transcriptase in the replication process of an HIV. (3 marks)
4. Explain the contribution of poverty to the spread of HIV/AIDS (3 marks)
5. State characteristics of HIV I in terms of distribution, virulence and subgroups (3 marks)
6. List at least six (6) top Opportunistic diseases in Kenya (3 marks)
7. Briefly describe the surface marker of a lymphocyte (3 marks)
8. What does the abbreviation “CD 4” stands for? (3 marks)
9. Describe the structural components of the outer coat ( surface envelope) of an HIV particle. (3 marks)
10. Differentiate between HIV and AIDS (3 marks)

## **Section B answer any two 2 Questions**

1. Human Immunodeficiency Virus is among the leading causes of deaths in Kenya
  - a) List then briefly explain at least four (4) aspects of socioeconomic factors which can help to reduce the spread of HIV in Nyanza Province – Kenya (each 2 marks) (8 marks)
  - b) How is HIV/AIDS stage two (II) diagnosed using the WHO staging (4 marks)
  - c) Explain the Kenya national strategies to reduce the spread of HIV (8 marks)
2. List then explain the five (5) ARV action points then indicate at least two (2) drugs in each stage. (20 marks)
3. Explain at least ten ways that ensure adherence in taking ARVs. (20 marks)
4. Explain how you will conduct a successful peer education in HIV/AIDS. (20 marks)