



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN PUBLIC HEALTH / COMMUNITY HEALTH AND DEVELOPMENT**

1ST YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR

NAIROBI CITY LEARNING CENTRE

E-LEARNING

COURSE CODE: HCD 3112

COURSE TITLE: HIV AND AIDS

EXAM VENUE:

STREAM: (BCHD)

DATE:

EXAM SESSION:

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1. Answer Section A (COMPULSORY) 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

Question one (30 Marks)

1. HIV -1 is in circulation in most parts of the world.
 - a. How many HIV-1 groups and subtypes have been documented to be circulating? **(2Marks)**
 - b. Are these subtypes important in transmission of the HIV virus? **(3Marks)**
2. Jane is a 25 year old lady. She goes to the hospital because she is unwell. The symptoms she describes include fever, rash and flu- like symptoms. She reports that she might have been exposed recently but cannot recall when. The medical practitioner suspects HIV infection.
 - a. Which stage of infection could Jane be in? Explain. **(3Marks)**
 - b. Which laboratory test should be done to **ascertain** HIV infection? **(2Marks)**
3. T lymphocytes are thought to be vital immune cells in the body. Explain **(5Marks)**
4. Describe giving clear examples how **some geographical regions** and **persons** are vulnerable to HIV infection. **(5Marks)**
5. Students from Jeramogi Oginga Odinga University of Science and technology want to do a community outreach activity in peer education. How will this be undertaken? **(4Marks)**
6. 'Despite the numerous research that is underway, still a portent HIV vaccine has been elusive'. Briefly describe reasons for this statement.**(4Marks)**
7. Describe one theory that has been postulates to be the origin of HIV **(2Marks)**

SECTION B. (Attempt any two questions each is 20 marks)

8. (a) Discuss the types of Antiretroviral drugs used in the management of HIV/AIDS **(15marks)**
(b) Describe the side effects for each type discussed above **(5Marks)**
9. The causative agent for HIV is a virus. The survival of this virus within the human body is thought of as being 'parasitic'. Discuss the steps involved.**(20Marks)**
10. HIV is burden to the family, society and the nation. Discuss.**(20Marks)**
11. A community health worker doing community visits comes along a person looking very sick. He advices this person to go to hospital. The doctor is highly suspicious that the patient has AIDS due to the infections the patient has.
 - a. Briefly describe some opportunistic infections associated with HIV / AIDS? **(15Marks)**
 - b. How can these opportunistic infections be managed? **(5Marks)**