



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH

**UNIVERSITY EXAMINATION FOR THE BACHELOR OF EDUCATION
SCHOOL BASED**

YEAR 1 SEMESTER 1

MAIN CAMPUS

COURSE CODE : HCD3114

COURSE TITLE : HIV AND AIDS

STREAM : BACHELOR OF EDUCATION

EXAM VENUE: 9.00 – 11.00am

DATE : 22nd August 2019

TIME : 2.00 HOURS

INSTRUCTION

- 1. Answer ALL questions in section A carrying 30 marks and ANY other 2 questions in section B carrying 20 marks each.**
- 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. Briefly explain three theories that attempt to explain the origin of HIV and Aids (3marks)
2. (i) Explain what you understand by adaptive immunity. (1 mark)
(ii) State two goals of ART. (2 mark)
3. State three ARV drugs (3marks)
4. (i) Illustrate using a good diagram HIV (Virion) structure (1 marks)
(ii) Name two HIV enzymes and give their roles (2 marks)
5. State three fundamentals considered for a good condom use. (3marks)
6. Outline three HIV Tests recommended by WHO. (3 marks)
7. Explain three reasons that make women more vulnerable to HIV/ AIDS than men.(3mks)
8. Explain the contribution of alcohol use to the spread of HIV and AIDS. (3marks)
9. (i) The first case of a rare pneumonia was diagnosed in 1981. Name the causative Organism for this new disease. (1 mark)
(ii) The new disease diagnosed in 1981 was accompanied by a rare skin tumour. Name the rare skin tumor. (1 mark)
(iii) What was the first name given to HIV/AIDS virus? (1 mark)
10. State three challenges faced in HIV vaccine development (3 marks)

SECTION B

1. (i) Discuss **five** steps that the Kenya government has taken to reduce the spread of HIV. (10 marks)
(ii) Enumerate **five** legal and ethical rights for people living with HIV and aids (10marks)
2. (i) Discuss **five** contributory factors to the spread of HIV and AIDS in Africa. (10 marks)
(i) John and Mary are both HIV seropositive and are couples. Assuming you have been approached as a community health officer to assist them in order to get a child who is HIV seronegative. What advice can you give to this couple? (10 marks)
- 3.(i) Discuss the natural history of HIV according to WHO staging. (15 marks)
(i) Explain **three** ways of ensuring blood safety in blood transfusion (5 marks)
- 4(i) Discuss the replication process of HIV. (14 marks)
(i) State **three** common routes of HIV transmissions (6 marks)