



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE**

**1st Year 1st SEMESTER 2023/2024 ACADEMIC YEAR
MAIN MODULE 2.**

COURSE CODE: HCB 1103

COURSE TITLE: HIV AND AIDS

EXAM VENUE:

STREAM: (Degree)

DATE:

EXAM SESSION: September-Dec. 2023

TIME: 3.00 HOURS

Instructions:

- i. Answer section A and any two in section B.
- ii. Candidates are advised not to write on the question paper.
- iii. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A 30 MARKS

1. Define the following terms as used in HIV /aids **(3 marks)**
 - a. Discordance
 - b. Drug abuse
 - c. Home based care
2. State any 3 difficulties associated with home-based care **(3 marks)**
3. Explain any 3 reasons against condom use among college students **(3 marks)**
4. List any three social practices promoting HIV infections in Kenya today. **(3 marks)**
5. Explain any three uniqueness of HIV viruses **(3 marks)**
6. Explain any three options of HIV prevention available in Kenya **today (3 marks)**
7. State any three categories of HAART and describe where they act in a human cell **(3marks)**
8. List any three impacts of HIV to affected persons today **(3 marks)**
9. List any three ways HIV prevention may not be realized **(3 marks)**
10. Explain three cells of immune system **(3 marks)**

SECTION: B 40 marks

1. a) Discuss any five opportunistic infections that are common in HIV/AIDS and in low and middle- income countries. **(10 marks)**
b) List any five management options available in common opportunistic infections in PLWHIV/AIDS **(10 marks)**

2. Like most virus HIV is a lentivirus
 - a. Explain any five characteristics of HIV viruses **(10 marks)**
 - b. Describe the life cycle of HIV listing treatment options available at each stage and examples if available for treatment options. **(10 marks)**

3. a) Differentiate the following giving example in each case.
 - i. HIV – 1 and HIV – 2
 - ii. Epidemic, pandemic and endemic.
 - iii. B – cells and T – cells
 - iv. Symptomatic stage and clinical stage **(10 marks)**
b) Describe cells responsible for bacterial, parasitic, fungal and viral infections. **(10 marks)**

4. a) Discuss factors responsible for HIV progression **(10 marks)**
b) “HIV is so dangerous and unique” discuss. **(10 marks)**