



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

**UNIVERSITY EXAMINATION FOR THE BACHELORS IN SPECIAL
NEEDS/ COMMUNITY HEALTH/ BUSINESS STUDIES.**

FIRST YEAR, FIRST SEMESTER 2018/2019 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: HCD 3112

COURSE TITLE: HIV and AIDS

DATE

TIME DURATION: 2 HOURS

INSTRUCTIONS:

- 1. This paper contains two sections (A and B)**
- 2. Answer ALL questions in Section A and any Two (2) questions in Section B**
- 3. Write ALL answers in the booklet provided**
- 4. You may use illustrations in your answers as you deem necessary**

SECTION A: Answer all questions (30 marks)

1. Distinguish the terms protease inhibitor, reverse transcriptase and retrovirus, using relevant examples **(6 marks)**
2. Name two of the main ways of monitoring HIV disease progression **(2 mark)**.
3. Using relevant examples explain the following terms **(8 marks)**
 - a. Seroconversion
 - b. Prevalence
 - c. Incidence
 - d. Window Period
4. Distinguish between Sero-Concordant Negative and Discordant couples **(4 marks)**
5. Differentiate the term Transactional sex from formal commercial sex work **(4 marks)**
6. Using relevant examples differentiate between a generalized, and concentrated epidemic **(4 marks)**
7. Name 4 key populations who are often at high risk of HIV infection **(2 marks)**

SECTION B: Choose any Two questions for Discussion (40 Marks)

8. Discuss the different modes of HIV transmission, and hence elaborate the natural course of HIV infection clearly detailing the three phases **(20 marks)**
9. Discuss the four important attributes of HIV, and hence detail the different classes of Anti-Retroviral Therapy (ART) drugs and their mechanisms of action **(20 marks)**.
10. Discuss the key components of combination HIV prevention, and hence detail the five points of Strategic, Prioritized Programming for Prevention using relevant examples **(20 marks)**.