



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE PUBLIC
HEALTH / COMMUNITY HEALTH AND DEVELOPMENT
3RD YEAR 1ST SEMESTER 2022/2023 ACADEMIC YEAR
MAIN

COURSE CODE: HCB 2307

COURSE TITLE: DRUG AND SUBSTANCE ABUSE

EXAM VENUE:

STREAM: (BSc. Comm Hlth & Dev)

DATE:

EXAM SESSION:

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the 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: Answer ALL questions from this section (30 marks)

1. By use of relevant examples differentiate between a drug abuser and a drug addict (3 marks)
2. List THREE neurotransmitters affected by drugs of abuse and the behaviours they control in the human body (3 marks)
3. Explain TWO types of reward systems and give an example of each (3 marks)
4. Describe THREE factors that can influence the addiction potential of a drug (3 marks)
5. Explain THREE modes of pharmacological classification of drugs of abuse (3 marks)
6. Explain the ‘multiple risk factor theory’ as used in explaining dual diagnosis of mental illness and substance abuse (3 marks)
7. Describe THREE harm reduction strategies used in managing drug abuse (3marks)
8. List SIX public health implications of substance abuse in Kenya (3 marks)
9. Discuss the concept and goals of tertiary prevention in drug and substance abuse management (3 marks)
10. Discuss THREE medical complications associated with drug and substance abuse (3 marks)

SECTION B: Answer question ONE (COMPULSORY) and any other question from this section (40 marks)

1. Discuss THREE broad risk factors that can predispose one to drug addiction (20 marks)
2. Discuss 5 critical components of effective treatment of drug and substance abuse (20 marks)
3. a. Describe THREE ways through which substances of abuse affect neurotransmission (6 marks)
b. Using the mechanism of action of cocaine, describe how drugs work in the brain to produce pleasure (14 marks)