



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SPATIAL
PLANNING AND DESIGN
SEMESTER 2022/2023 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: PPB1309

COURSE TITLE: URBAN LANDSCAPE DESIGN

EXAM VENUE:

STREAM: SPATIAL PLANNING

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (compulsory) and ANY other 2 questions.**
- 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.**

QUESTION ONE

a) Explain how the following may be applied in landscape design.

- i . Street furniture (1 mark)
 - ii. Hydroponics (1mark)
 - iii. Aquaponics (1 mark)
 - iv. Fog harvesting (1 mark)
 - v. Subsurface drainage (1 mark)
- b.) Discuss the concept of electric generation by pedestrian movement on pavements (5 marks)
- c.) Explain the importance of visual access in urban landscape design. (5 marks)
- d.) Discuss the use of biological pest control in urban landscape design. (5 marks)
- e.) Explain measures used to mitigate sheet erosion in landscape design. (5 marks)
- f.) Discuss the factors to be considered when assessing the effect of gradient on a site's landscape design. (5 marks)

QUESTION TWO

Explain the need for both 2- D and 3-D visuals in urban landscape design presentations.

(20 marks)

QUESTION THREE

Discuss measures that may be undertaken to maintain and improve soil structure and nutrients within a landscaped site. (20 marks)

QUESTION FOUR

Explain the significance of landscaping in urban planning

(20 marks)

QUESTION FIVE

Discuss the advantages of computer numerical (CNC) technology in urban landscape design.

(20 marks)