



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING AND NATURAL RESOURCE MANAGEMENT
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS IN
SPATIAL PLANNING
SEMESTER1 2024/2025 ACADEMIC YEAR**

CENTRE: MAIN CAMPUS

CODE: PPB 1316

COURSE TITLE: SUSTAINABLE HOUSING DEVELOPMENT

EXAM VENUE: MAIN CAMPUS STREAM: SPATIAL PLANNING

DATE: 22/4/2025 EXAM SESSION: 15.00-17.00

TIME: 2 HOURS VENUE: LR 7

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. Define sustainable housing and explain its importance in modern urban development. (5 marks)
- b. Identify and elaborate on three key principles of sustainable housing. (7 marks)
- c. Discuss the main global housing challenges and how they affect sustainable development. (8 marks)
- d. Analyze why sustainable housing is critical for future urbanization. (10 marks)

Question Two

- a. Discuss the environmental advantages of using sustainable construction materials. (6 marks)
- b. Identify innovative construction methods that reduce environmental harm. (6 marks)
- c. Analyze the success of one case study in environmentally sustainable housing. (8 marks)

Question Three

- a. Explain the concept of cost-benefit analysis in the context of sustainable housing. (6 marks)
- b. Identify three mechanisms for financing sustainable housing projects. (6 marks)
- c. Analyze the economic benefits of sustainable housing in urban development. (8 marks)

Question Four

- a. Discuss how housing design can promote social equity and inclusivity. (6 marks)
- b. Identify three ways housing can enhance the health and well-being of residents.
- c. Analyze the role of participatory planning in achieving social sustainability in housing. (8 marks)

Question Five

- a. Describe the purpose of policies in sustainable housing development. (5 marks)
- b. Propose policy improvements to support affordable sustainable housing. (7 marks)
- c. Evaluate how regulatory frameworks impact the adoption of sustainable building practices. (8 marks)