

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF SPATIAL PLANNING

UNIVERSITY EXAMINATION (RESIT) FOR THE DEGREE OF BACHELOR OF SPATIAL PLANNING AND DESIGN SEMESTER1 2022/2023 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

CODE: PNB 1102 COURSE TITLE: BASIC CONCEPTS IN ENVIRONMENT AND

DEVELOPMENT

EXAM VENUE: MAIN CAMPUS STREAM: SPATIAL PLANNING

DATE: EXAM SESSION: 2022/2023

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.

Q1a) Explain the following using examples

i)	Sustainable development	2 Marks
ii)	Intergenerational equity	2Marks
iii)	Environmental sustainability	2Marks
iv)	Environmental degradation	2Marks
v)	Urban heat island	2marks

- b) Explain how urban areas and cities contribute to Climate Change [10 Marks]
- c) Using examples, explain the impact of globalization on the environment [10 Marks]
- Q2a) Discuss how the problem of solid waste can be solved in urban areas and cities 10 Marks
- b) Discuss the impact of the following on the environment

i) Population 2Marks

ii)Technology 2Marks

iii) Poverty 2Marks

iv) Transportation 2Marks

v)Building Construction 2Marks

- Q3) Discuss the following:
 - i) **Limits to Growth** by the Club of Rome using well labelled diagram 10 Marks
 - ii) Impact of urbanization on the environment 10Marks]
- Q4a) How can physical and land use planning be leveraged to achieve environmental sustainability [10 Marks]
- b) Discuss the impact of energy production and use on the environment [10 Marks]
- Q5a) What assumptions are usually taken into consideration while computing ecological foot print (EFP)?

Marks]

b) What questions would you pose that will enable you to generate appropriate data for computing the Ecological Foot Print of an organization

10 Marks