



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING AND NATURAL RESOURCE MANAGEMENT
UNIVERSITY EXAMINATION FOR DEGREE OF MASTER OF SCIENCE IN URBAN
ENVIRONMENTAL PLANING AND MANAGEMENT
1ST YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR
KISII LEARNING CENTRE**

COURSE CODE: NES 802

**COURSE TITLE: URBAN ENVIRONMENAL PLANNING & MANAGEMENT
TECHNIQUES**

EXAM VENUE: LR 10

STREAM: (MA Spatial Planning)

DATE: 16/04/14

EXAM SESSION: 9.00 – 12.00 NOON

TIME: 3.00 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.**

Q 1. a) Discuss at least five principles that inform urban environmental planning and management in Kenya. (10 marks)

b) Explain the key steps involved in urban environmental planning and management. (10 marks)

Q 2. a) With the aid of examples differentiate between point source and non-point source water pollution. (5 marks)

b) Explain the following urban environmental management tools with the aid of relevant examples

- Dematerialization (5 marks)

- Product stewardship (5 marks)

- Servicizing (5 marks)

Q 3. a) Differentiate between climate variability and climate change. (5 marks)

b) 'Climate change is one of the most important long term issues facing the world today' Explain how County Governments can effectively contribute towards adaptation to climate change in urban areas. (15 marks)

Q 4. Discuss the major anthropogenic threats to urban and pre-urban green spaces and provide plausible remedial measures (20 marks)

Q5. a) 'Urban environmental planning and management is a governance issue'. Discuss. (10 marks)

b) Explain the role of research in urban and pre-urban environmental planning and management (5 marks)