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

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN WATER RESOURCE AND ENVIRONMENTAL MANAGEMENT**

**SEMESTER 2016/2017 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

**COURSE CODE: PES 3311**

**COURSE TITLE: ENVIRONMENTAL PLANNING THEORY**

**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.**

Q1 a. Define the following terms

i. Environmental planning (2 marks)

ii. Ecosystem (2 marks)

b. Differentiate the following

i. Conservation and Preservation of the environment (2 marks)

ii) Coevolution and Coadaptation (2 marks)

c. Explain **Six** basic societies and indicate their main source of livelihood (12 marks)

d. Explain **FOUR** ecological services which a healthy ecosystem should provide (2 marks)

Q2a. Discuss **FOUR** theories in planning (8 marks)

b. Discuss **FIVE** classification of environmental planning (10 marks)

c. State **TWO** effects of environmental planning (2 marks)

Q3 Discuss **FIVE** approaches to planning (10 marks)

b. Discuss **FIVE** drivers of environmental politics (10 marks)

Q4a. What is your understanding of indigenous knowledge? (2 marks)

b. Discuss how indigenous knowledge is being degraded slowly by slowly in most communities of the world (8 marks)

c. Discuss how indigenous knowledge can be revitalized in order to attain sustainable development (10 marks)

Q5a. What is the main objective of urban design? (2 marks)

b. Discuss **FIVE** strategies that can be used in realizing objectives of urban design (10 marks)

c. Explain **FOUR** strategies that can be used in realizing cultural identity and neighborhood character (8 marks)