

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 3323

COURSE TITLE: SCIENTIFIC AND ECONOMIC INSTRUMENTS FOR

ENVIRONMENTAL MANAGEMENT

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.

Section A

1.	(a) Define the following:	
	(i) Environmental Management	(2 marks)
	(ii) Environmental Management Systems	(4 marks)
	(b) Explain three ways in which Environmental Assessment (EA) can be used in appraising projects, and programs (6 marks)	
	(c) Indicate five comparative features of project led Environmental Assessment and Strategic Environmental Assessment (10 marks)	
	(d) Highlight five approaches to Environmental Valuation	(10 marks)
Section B		
2. (a) Explain five key performance areas on Environmental Management		(5 marks)
(b) Discuss three Environmental Instruments and justify their relevance on management of environment (15 marks)		
3. (a) Define Strategic Environmental Assessment (SEA)		(2 marks)
(b) Discuss the benefits of SEA	(10 marks)
(0	e) Discuss four stages of SEA	(8 marks)
4. (a) Define Biological Diversity (BD)		(2 marks)
	(b) Outline the importance of BD	(6 marks)
(c) Discuss the causes and consequences of habitat loss	(12 marks)
5. (a) Discuss your understanding of Payment for Ecological Services (PES) (1 ma		(1 mark)
	(b) Outline three broad types of PES	(9 marks)
	(c) Discuss five key principles underpinning PES	(10 marks)