



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING AND NATURAL RESOURCE MANAGEMENT
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN
WATER RESOURCES AND ENVIRONMENTAL MANAGEMENT
1ST YEAR 1ST SEMESTER 2013/2014 ACADEMIC YEAR
REGULAR**

COURSE CODE: PES 3212

COURSE TITLE: EARTH MATERIALS, PHYSICAL PROCESS AND THE ENVIRONMENT

EXAM VENUE: LR 6

STREAM: Water Sciences)

DATE: 14/04/14

EXAM SESSION: 9.00 – 11.00 AM

TIME: 2.00 HOURS

Instructions:

- 1. Answer Section A (Compulsory) and ANY other 2 questions in section B**
- 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) With the help of a sketch, examine the structure of the earth. [10 marks]
- b) Briefly describe the evolution of hydrosphere. [10 marks]
- c) Highlight the stages by which living organisms become fossils. [10 marks]

Question Two

- a) Identify global environmental challenges facing the world. [10 marks]
- b) List possible measures that can address the environmental challenges. [5 marks]
- c) Suggest soil and water conservation strategies applicable in Kenya. [5 marks]

Question Three

- a) Concisely describe the physiography of earth's terrestrial surface. [10 marks]
- b) Giving examples where applicable, describe earth's natural resources found in Kenya. [10 marks]

Question Four

- a) Fossils cannot be found everywhere on the earth. Discuss? [10 marks]
- b) Identify and describe uses of Fossils. [10 marks]

Question Five

- a) Describe the following processes of soil erosion
 - i. Entrainment [2 marks]
 - ii. Detachment [2 marks]
 - iii. Transport [3 marks]
 - iv. Deposition [3 marks]
- b) Examine any five environmental impacts due to soil erosion. [10 marks]