



**JARAMOGI ODINGA OGINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF EDUCATION, HUMANITIES AND SOCIAL SCIENCES**  
**DEPARTMENT OF CURRICULUM AND EDUCATIONAL MANAGEMENT**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION**  
**ARTS/SCIENCE/SNE/ECED/ & AGRICULTURAL EXTENTION IN EDUCATION**  
**WITH IT**  
**1<sup>ST</sup> YEAR, 2<sup>ND</sup> SEMESTER, 2019/2020 ACADEMIC YEAR**  
**MAIN CAMPUS - SCHOOL OF EDUCATION, HUMANITIES AND SOCIAL**  
**SCIENCES/SIAYA CAMPUS - SCHOOL OF AGRICULTURAL AND FOOD**  
**SCIENCES, REGULAR STUDENTS**  
**4<sup>TH</sup> YEAR SPECIAL RE-SIT II**

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**COURSE CODE: EMA 111**

**COURSE TITLE: Environmental Education**

**DATE: 5<sup>TH</sup> DECEMBER, 2020      STREAM: BED. ARTS/SCIENCE/SNE/ECED**

**TIME: 3 HOURS      EXAM SESSION: 11.00 - 14.00PM**

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**INSTRUCTIONS:**

**1 Answer question ONE (COMPULSORY) and ANY other TWO questions.**

- 1. Candidates are advised to write on the text editor provided, or to write on a foolscap, scan and upload alongside the question.**
- 2. Candidates must ensure that they submit their work by clicking 'FINISH AND SUBMIT ATTEMPT' button at the end.**

### **QUESTION 1 (COMPULSORY)**

- A. Define the following concepts of Environmental education
  - I. Ecology (2marks)
  - II. Demography (2marks)
- B. Define “global warming” and explain its causes (6mks?)
- C. (i) Explain environmental sustainability (4 marks)  
(ii) State four examples of environmental technology (4 marks)
- D. Explain any seven functions of (National Environment Management Authority,(NEMA) (7 marks)
- E. State the objectives of the UNESCO - UNEP International Environmental workshop held in Belgrade Yugoslavia in 1975 (5mks)

### **QUESTION TWO**

- (a) Using a clearly labeled diagram, describe the various layers of the atmosphere (10mks)
- (b) Describe the Hydrological Cycle highlighting how destruction of the environment can affect it (10 marks)

### **QUESTION THREE**

- A. Explain ANY three reasons why the use of chemicals is necessary within the environment ,(10 marks)
- B. Discuss Environmental effects of pesticide,( 10 marks)

### **QUESTION FOUR**

- (a) Define the following terms:
  - i. Population density (2mks)
  - ii. Death rate (2mks)
- (b) Explain the factors that affect population density of a given country (8mks)
- (c) Explain the various ways in which human population growth affect the environment (8mks)

### **QUESTION FIVE**

Discuss any five ways through which technology can be harmful to the environment (20 marks)