

**JARAMOGI OGINA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS NOVEMBER/DECEMBER 2020**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF  
BACHELOR OF EDUCATION**

**KISUMU CAMPUS**

**COURSE CODE: EMA 3121**

**TITLE: ENVIRONMENTAL EDUCATION**

**DATE: 07/12/2020**

**TIME: 3.00-5.00PM**

**DURATION: 2HRS**

**INSTRUCTIONS**

This paper contains six questions. Answer **THREE** questions. Question 1 is compulsory

**QUESTION 1 (COMPULSORY)**

(A) Define the following terms as used in Environmental education

- i. Ecology (2marks)
- ii. Demography (2marks)
- iii. Autotrophs (2marks)
- iv. Land Carrying capacity(2marks)

(B) Improper land management leads to soil wash, loss or destruction of soil organic matter and loss of biological diversity. What are some of the improper land use practices? (3marks)

(C) Illustrate the structure of the earth (4marks)

(D) State five objectives of the UNESCO-UNEP International Environmental workshop held in Belgrade Yugoslavia in 1975 (5mks)

(E) Describe the hydrological cycle and explain briefly how destruction of the environment can affect it (12 marks)

**QUESTION 2**

(A) Define the term atmosphere (2mks)

(B) Using a well labeled diagram, describe the various layers of the atmosphere (18mks)

### QUESTION 3

- (A) Briefly state the Malthusian theory of population growth. (4mks)
- (B) What are the major criticisms leveled against this theory (8mks)
- (C) Discuss the relevance or otherwise of this theory to Kenya's population growth (8mks)

### QUESTION 4

( a ) Define the following terms:

I. Population density (2mks)

II. Death rate (2mks)

- (b) Briefly explain the factors that affect density of population of a given area (8mks)
- (c) Explain the various ways by which human population growth affect the environment (8mks)

### QUESTION 5

- (a) Explain what is meant by "Ozone layer" (4mks?)
- (b) How has the depletion of Ozone layer affected human society? (8mks)
- (c) Explain how depletion of the Ozone layer can be halted (8mks)