



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF EDUCATION

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION (ECDE)

1ST YEAR 2ND SEMESTER 2016/2017 ACADEMIC YEAR

SCHOOL BASED

MARANDA STUDY CENTRE

COURSE CODE: EMA 111

COURSE TITLE: ENVIRONMENTAL EDUCATION

INSTRUCTIONS

- 1. Answer Question ONE (COMPULSORY) and ANY other TWO question.**
- 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. Define the following terms
- b.
 - i. Environment (1 mark)
 - ii. Carrying capacity (1 mark)
 - iii. Ecosystem (1 mark)
- b. Briefly explain four improper land use practices (4 marks)
- c. State four uses of the hydrosphere (4 marks)
- d. State five objectives of the UNESCO-UNEP International Environmental workshop, held in Belgrade in 1975 (5 marks)
- e. Distinguish between renewable and non-renewable resources giving examples (6 marks)
- f. With the aid of examples, distinguish between food chain and food web (6 marks)

QUESTION TWO

Discuss how the advancement in information and communication technology (ICT) can affect the environment. (20 marks)

QUESTION THREE

- a. Explain how deforestation can affect the hydrological cycle (6 marks)
- b. Using a well labeled diagram describe the hydrological cycle (14 marks)

QUESTION FOUR

- a. Describe the major health problems associated with the usage of pesticides and fertilizers (10 marks)
- b. Discuss how advancement in biotechnology can affect the environment (10 marks)

QUESTION FIVE

- a. Explain the Malthusian Theory of population growth and its relevance to environmental management (12 marks)

Describe the limitations of this theory (8