

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY (JOOUST)**

**SCHOOL OF EDUCATION**

**DEPARTMENT OF B/ED (ARTS)**

**DEGREE: B/ED (ARTS)**

**SEMESTER 2 EXAMINATION**

**EMA 111: ENVIRONMENTAL EDUCATION**

**2013/14 ACADEMIC YEAR**

**INSTRUCTIONS**

**Section A: Contains Long Answer Question (LAQ 1)**

LAQ1 is **COMPULSORY**

 LAQ1 is allocated **THIRTY (30) Marks**

**Section B:** There are **FIVE (5)** Questions in this Section

 Answer **ANY TWO** Questions

 Each Question is allocated **TWENTY (20**) Marks

**SECTION A: LONG ANSWER QUESTIONS (LAQ) (30 MARKS)**

**INSTRUCTIONS**

**There is ONE question in this section. This question is COMPULSORY**

**LAQ 1**

1. Layman’s synonym for the term **environmental education could range from environmental information to environmental advocacy**
2. Define Environmental education (2)
3. Differentiate between Environmental Education and Environmental information (6)
4. Describe the hydrological cycle (12)
5. State any four (4) uses of the hydrosphere (4)
6. Illustrate the structure of the earth (4)
7. Differentiate between food chain and food web (2)

**SECTION B: SHORT ANSWER QUESTIONS (SAQ). (40 Marks)**

**INSTRUCTIONS**

1. There are **FIVE (5)** Questions in this Section
2. Answer **ANY TWO** Questions
3. Each Question is allocated **TWENTY (20**) Marks

**SAQ 1**

1. Define the following terms as used in environmental education
2. Autotrophs (2)
3. Decomposers (2)
4. List any four (4) earth’s main resources (4)
5. Briefly describe the components of biosphere (6)
6. State the methods of environmental awareness teaching (6)

**LAQ 2**

1. Explain the consequences of the following problems associated with environmental misuse by man (3)
2. Water pollution by chemicals and solid waste
3. Soil erosion
4. Declining productivity
5. With examples, explain the communication process (8)
6. Explain the meaning of the following as used in environmental Education (4)
7. Outdoor education
8. Experiential education
9. Illustrate the biosphere (5)

**LAQ 3**

1. State four (4) uses of microbial resources (4)
2. Describe any 4 (four) methods of waste disposal (8)
3. List any four (4) barriers to communication that may arise during environmental education in any level of 8-4-4 system of education (4)
4. State the four (4) layers of atmosphere (4)

**LAQ 4**

1. Define the following terms as used in environmental education
2. Ecology (2)
3. Demography (2)
4. With examples, describe main types of waste generated by man (6)
5. Explain the contributions of the following conferences in understanding of environmental education (6)
6. Tbilisi Declaration
7. Belgrade Charter
8. Stockholm Declaration
9. Improper land management leads to soil wash, destruction or loss of soil organic matter and loss of biological diversity. What are some of the improper land use practices? (4)

**LAQ 5**

1. Explain the global warming phenomenon (5)
2. Sate four (4) kinds of symbiotic relationships (4)
3. Air pollution is the destruction of the purity or sanctity of air.
4. Explain any three (3) main effects of air pollution(3)
5. Suggest any 5 (five) solutions to air pollution (5)
6. State three (3) examples of green house gases (3)

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