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**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2020/2021 ACADEMIC YEAR FOUR**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF EDUCATION, ARTS AND SOCIAL SCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)**

**COURSE CODE: EMP 410**

**COURSE TITLE: ENVIRONMENTAL EDUCATION**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 09/10/2021 TIME: 12.00-2.00 PM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FIVE (5) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining FOUR (4) questions**
* **Use sketch diagrams to illustrate your answer whenever necessary**
* **Do not carry mobile phones or any other written materials in examination room**
* **Do not write on this paper**

**This paper consists of TWO (2) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. Define the following terms (6marks)
   * 1. Environmental education
     2. Environmental management
     3. Ecosystem
2. Discuss five reasons behind teaching environmental education to practicing teachers (10marks)
3. Describe how you can teach environmental education to primary school’s pupils using a subject of your choice (8marks)
4. Examine the impacts of any three emerging global environmental issues (6marks)

**QUESTION TWO**

1. Discuss the following techniques of environmental management (10marks)
2. Cost Benefit Analysis
3. Appropriate Technology
4. Describe the Malthusian theory and Green revolution concepts in regard to global food production (10marks)

**QUESTION THREE**

1. Explain any two parameters of population change (6marks)
2. Explain five problems associated with urban human settlements while providing practical solutions (10marks)
3. State four factors influencing the effects of pesticides to human health (4marks)

**QUESTION FOUR**

1. Examine the contributions of the following parts of physical and natural environment to the human wellbeing (9marks)
2. atmosphere
3. hydrosphere
4. pedo-lithosphere
5. Define Environmental Impact Assessment (EIA) (2marks)
6. State two role of EIA in environmental development and planning in Kenya. (2marks)
7. “Common resources are owned by none but available to all” Discuss this assertion in relationship to community resources in Northern Kenya (9marks).

**QUESTION FIVE**

1. Explain three functions of National Environmental Management Authority (NEMA) (6marks)
2. Discuss any three types of natural hazards in Northern Kenya while giving the preparedness measures that need to be put in place (9marks).
3. Differentiate between inter disciplinary and multidisciplinary of teaching environmental education as used in Kenya using examples (5marks).