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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

FOURTH YEAR 2ND SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND
BIOTECHNOLOGY & BACHELOR OF SCIENCE AGRICULTURE
ECONOMICS AND RESOURCE MANAGEMENT**

COURSE CODE: IAE 400

COURSE TITLE: NATURAL RESOURCE MANAGEMENT

DATE: 12/02/2021.

TIME: 11-1 PM.

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE**30 MARKS**

- (a) Briefly explain the following terms. **(12 Marks)**
- (i) Common Pool resources (3marks)
 - (ii) Natural Resource Management (3 marks)
 - (iii) Renewable resource (3marks)
 - (iv) Genetic biodiversity (3marks)
- (b) Outline the classification of natural resources giving relevant examples where applicable. **(18 marks)**

QUESTION TWO**20 MARKS**

- (a) Explain the various conditions that must be fulfilled for markets to produce efficient resource allocations. **(8marks)**
- (b) Citing appropriate examples discuss the following terms as they relate to natural resource management
- (i) Policy Failure **(4 marks)**
 - (ii) Institutional Failure **(4marks)**
 - (iii) Market Failure **(4 marks)**

QUESTION THREE**20 MARKS**

- (a) Outline the concept of the "tragedy of the Commons". **(5 Marks)**
- (b) Describe the exclusionary management approaches that stem from this concept **(15 Marks)**

QUESTION FOUR**20 MARKS**

- (a) Explain five techniques used in economic valuation of natural resources **(10 Marks)**
- (b) Cost-benefit analysis (CBA) is applied by economists to test the economic viability of an existing or proposed activity, and/or compare two or more ways of carrying out the activity. What are the challenges of applying this technique to natural resources issues? **(10Marks)**

QUESTION FIVE**20 MARKS**

- (a) Define the term Biodiversity. **(2marks)**
- (b) Discuss the threats and challenges to biodiversity conservation. **(18 Marks)**