

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES UNIVERSITY EXAMINATION FOR: BACHELOR OF SCIENCE IN MARINE RESOURCE MANAGEMENT BSMR/16S/YEAR 2/ SEMESTER 1 AES 4205: NATURAL RESOURCE MANAGEMENT SPECIAL/ SUPPLIMENTARY EXAMINATIONS SERIES: SEPTEMBER 2018 TIME: 2 HOURS

Instructions to Candidates This paper consists of FIVE questions Answer question ONE (COMPULSORY) and any other TWO questions. This paper consists of two printed pages. Mobile phones are NOT allowed in the examination room

QUESTION ONE

| (a) | Discuss why you would need strong tradeoffs when dealing with management of the following resources. | | |
|-------------|---|-------------------------------------|--|
| | (ii) Solar and natural gas | (2 marks) (2 marks) (2 marks) | |
| (b) | Briefly explain classification of resources based on exhaustibility . | (3 marks) | |
| (c) | What are the importances of edaphic resources | (3 marks) | |
| (d) | What is the role of a negotiator in settling resource management disputes | (2 marks) | |
| (e) | Differentiate between extraction and purification of resources participation | (3 marks) | |
| (f) mana | What are the principal characteristics of placation and therapy as part of natural resource gement? (3 marks) | | |
| (g) | Define a natural resource | (2 marks) | |
| (h) | List and explain three indigenous knowledge system used in ancient conservation | (3 marks) | |

(i) Briefly illustrate the importance of understanding local regulations shaping natural resource management (2 marks)

| QUESTION TWO | | | | |
|--------------|--|--------|--|--|
| (k) | List two types of natural resources | (2mks) | | |
| (j) | List and explain three sources of renewable energy | (3mks) | | |

| (a) | List and explain the 10 categories of natural resources | (10 marks) |
|-----|--|------------|
| (b) | What are the factors that affect natural resource abundance and distribution | (10mks) |

QUESTION THREE

There are four main classifications of resources, clearly elaborate using examples (20 marks) **QUESTION FOUR**

Recent global analysis indicate that natural resources are important in maintaining ecosystem balance, and sustainability. After critically reflecting on defining the "ecosystem balance" and the "sustainability" reflect and take a position on the question above, and illustrate through examples given throughout the course. (20mks)

QUESTION FIVE

(a) What is the proper hierarchy of dealing with waste management in natural environments

(10mks)

(b) List and describe one environmental policy that protects a specific environmental ecosystem

(10mks)