



MACHAKOS UNIVERSITY

University Supplementary Examinations for 2021/2022 Academic Year
SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL SCIENCES
FOURTH YEAR SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF
BACHELOR OF ENVIRONMENTAL SCIENCE

ENS 347: ENERGY RESOURCES MANAGEMENT

DATE:

TIME:

Instructions: Answer question ONE and TWO other questions

QUESTION ONE (30 Marks)

- a) Highlight FIVE key factors that influence energy use in an area (10 Marks)
- b) Briefly discuss the disadvantages of using a named non-renewable energy resource (10 Marks)
- c) Discuss the importance of energy resources in the development of your County (10 Marks)

QUESTION TWO (20 Marks)

Discuss any FOUR environmental advantages of using renewable energy resources

QUESTION THREE (20 Marks)

Discuss FOUR key challenges associated with energy resources planning in Kenya

QUESTION FOUR (20 Marks)

Using a suitable example, discuss the importance of undertaking an energy audit in a facility

QUESTION FIVE (20 Marks)

Discuss any FIVE strategies of managing adverse impacts of energy use on water resources