



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE MANAGEMENT)

ECD 315: ENERGY RESOURCES AND COMMUNITY DEVELOPMENT

DATE: 9/11/2020

TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

- a) Using a specific example, discuss how energy resources influence the development of your County (10 marks)
- b) Explain the need for energy resources conservation in an area (10 marks)
- c) Highlight five adverse environmental impacts of non-renewable energy resources use (10 marks)

QUESTION TWO (20 MARKS)

Using a suitable illustration, discuss why it is not sustainable to rely on one type of energy resource for socioeconomic development of Kenya

QUESTION THREE (20 MARKS)

Assume you have been appointed the Chief Energy Resource Manager in your County. Discuss how you would ensure sustainable development of energy resources in the County and indicate the challenges you are likely to face

QUESTION FOUR (20 MARKS)

Discuss the key factors that influence the increasing demand for energy use in an area

QUESTION FIVE (20 MARKS)

Using a suitable example, discuss strategies of dealing with adverse environmental impacts of a **specific** energy resource on a community