



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ECD 306: HUMAN SETTLEMENTS, ENVIRONMENT AND DEVELOPMENT

DATE: 11/8/2021

TIME: 11.00-1.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Citing relevant examples, explain five functional categories of towns in Kenya. (5 marks)
- b) Discuss five factors that cause scattered human settlements in Kenya. (5 marks)
- c) Citing relevant examples, discuss the concept of 'Eco-city'. (10 marks)
- d) Discuss the effect of climate change on residential and commercial structures in Kenya. (10 marks)

QUESTION TWO (20 MARKS)

Give an account on the development of early human settlements.

QUESTION THREE (20 MARKS)

Explain the importance of the Urban Sustainable Development Goal (Goal 11) to the development of world's urban areas.

QUESTION FOUR (20 MARKS)

Explain the environmental effects of urbanization in Kenya.

QUESTION FIVE (20 MARKS)

- a) As a human settlements intern working for the Ministry of Transport, Infrastructure, Housing and Urban Development, Kenya, discuss the characteristics of slums that should be targeted in a slum upgrading project. (12 marks)
- b) Discuss the mitigation strategies that can be used to prevent the Urban Heat Island Phenomenon in a Kenyan Urban settlement. (8 marks)