



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEARSEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (COMMUNITY DEVELOPMENT)

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ECD 306: HUMAN SETTLEMENTS, ENVIRONMENT AND DEVELOPMENT DATE:

TIME:

INSTRUCTIONS;

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Define the following terms:
- i. Conurbation (1 mark)
 - ii. Ekistics (1 mark)
 - iii. Urban ecology (1 mark)
 - iv. Eutrophication (1 mark)
 - v. Slums (1 mark)
- b) Discuss the major housing problems in urban areas of Kenya. (10 marks)
- c) Describe FIVE factors that affect the location of human settlements in Kenya. (5 marks)
- d) As an expert on human settlements and development, explain to the Nairobi County Government management board how climate change is likely to affect transportation systems in the city. (10 marks)

QUESTION TWO (20 MARKS)

Give an account on the development of early human settlements.

QUESTION THREE (20 MARKS)

Discuss the environmental effects of urbanization in Kenya.

QUESTION FOUR (20 MARKS)

- a) As a consultant hired by the United Nations High Commissioner for Refugees, explain the typical activities that you would consider when designing human settlements. (12 marks)
- b) Discuss the mitigation strategies that can be used to prevent the Urban Heat Island Phenomenon in a Kenyan urban setting. (8 marks)

QUESTION FIVE (20 MARKS)

Explain why human settlements are established.