



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:
DIPLOMA IN ENVIRONMENTAL SCIENCE
AES 2203 CLIMATE CHANGE AND INTERVENTIONS
END OF SEMESTER EXAMINATION

SERIES:AUGUST 2019

TIME:2HOURS

DATE:Pick DateAUG2019

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** Question(s). Attempt question ONE (Compulsory) and any other TWO questions

QUESTION ONE

- A) Briefly describe climate change mitigation (4 marks)
- B) Describe measures taken in energy conservation (6 marks)

- C) Briefly describe activities that enhance adaptive capacity in communities in the face of climate change (5 marks)
- D) Briefly explain climate change adaptation (4 marks)
- A) Outline the greenhouse gases (5 marks)
- B) Outline the major impacts of climate change (6 marks)

QUESTION TWO

Describe the human activities that lead to production of the following greenhouse gases (GHGs).

- A) Carbon dioxide (5 marks)

- B) Methane (natural gas) (5 marks)

- C) Nitrous oxide (5 marks)

QUESTION THREE

Discuss steps taken to adapt to threats intensified by climate change, such as flooding, bushfires, heatwaves, and rising sea levels. (15 marks)

QUESTION FOUR

Discuss the following Physical evidence for climatic change

- a) Dendroclimatology (5 marks)
- b) Pollen analysis (5 marks)
- c) Insects (5 marks)

QUESTION FIVE

Discuss the consequences of climate change in the agricultural sector (15 marks)