

UNIVERSITY OF ESWATINI



SEMESTER 2 MAIN EXAMINATION PAPER, AUGUST 2020

BA. Hums, B. Ed. & IDE

FACULTY OF SCIENCE AND ENGINEERING

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

COURSE CODE: GEP426

PAPER TITLE: CLIMATE CHANGE

TIME ALLOWED: Three (3) Hours

ANSWER THREE QUESTIONS

2. QUESTION 1 IS COMPULSORY

3. ILLUSTRATE YOUR ANSWERS WITH
EXAMPLES AND CLEARLY DRAWN DIAGRAMS
WHERE APPROPRIATE

ALLOCATION OF MARKS: QUESTION 1 (COMPULSORY) CARRIES
40 MARKS WHILE THE REST CARRY 30
MARKS EACH

Candidates may complete the front cover of their answer book when instructed by the Chief Invigilator and sign their examination attendance card but must NOT write anything else until the start of the examination period is announced.

No electronic devices capable of storing and retrieving text, including dictionaries and any form of foreign material may be used while in the examination room

DO NOT Turn examination paper over until instructed to do so

GEP426: CLIMATE CHANGE – AUGUST 2020

SECTION A: COMPULSORY

QUESTION 1

- a) Differentiate between climate variability and climate change. (10 marks)
- b) You have been tasked, by a climate advocacy group, to write a proposal on the five major areas the kingdom of Eswatini needs to address to significantly reduce its GHG emissions. Discuss in detail the key suggestions you will provide in your report. (30 marks)
- (40 Marks)**

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 2

You have been tasked as a scientist to advise the Eswatini, Ministry of Agriculture 'crop production unit' on methodologies they can implement for climate change adaptation in the dry Middleveld of the country. Outline, in detail your advice. (30 Marks)

QUESTION 3

Compare and contrast the following climate change agreements: The Paris agreement and The Kyoto protocol. And give reasons why it is beneficial for a small country such as Eswatini to be signatory to these agreements. (30 Marks)

QUESTION 4

- a) Discuss the factors controlling climate on Earth. (15 marks)
- b) What is ozone and why is it important to study it? (15 marks)
- (30 Marks)**

QUESTION 5

Discuss the external and internal natural causes of climate change. (30 Marks)