Geography III 023

01/08/2022

8:30 AM - 11:30 AM



ADVANCED LEVEL NATIONAL EXAMINATIONS, 2021-2022

SUBJECT: GEOGRAPHY III

PAPER III: PHYSICAL GEOGRAPHY

DURATION: 3 HOURS

COMBINATIONS:

- HISTORY-ECONOMICS- GEOGRAPHY (HEG)
- MATHEMATICS ECONOMICS GEOGRAPHY (MEG)
- MATHEMATICS PHYSICS GEOGRAPHY (MPG)
- BIOLOGY-CHEMISTRY-GEOGRAPHY (BCG)
- LITERATURE-ECONOMICS- GEOGRAPHY (LEG)
- HISTORY- GEOGRAPHY- LITERATURE (HGL)

INSTRUCTIONS:

- 1) Do not open this question paper until you are told to do so.
- 2) Write your names and index number as they appear on your registration form and **DO NOT** write your names and index number on additional answer sheets if provided.
- 3) This paper consists of **THREE** sections **A**, **B** and **C**.

SECTION A: This section is compulsory.

(55 marks)

SECTION B: Attempt any **THREE** questions.

(30 marks)

SECTION C: Attempt any **ONE** question.

(15 marks)

4) Use a blue or black pen.

SECTION A: ATTEMPT ALL QUESTIONS (55 marks)

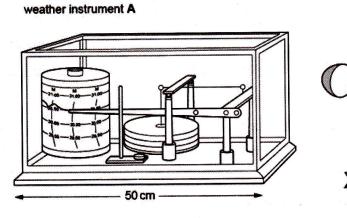
1) Define the term fieldwork.	(2 marks)
1) Define the term heldwork.	
2) a) Outline elements of a good map.	(3 marks)
b) With clear illustrations, describe the characte two major classifications of map projections.	ristics of the (2 marks
3) a) Write short notes on any two types of weather	ring. (2 marks)
b) Name any three processes of physical weather	
4) State three factors that influence mass wasting.	(3 marks)
5) Outline three ways in which river erosion works	(3 marks)
6) Write down the meaning of equinox and explain	its types. (3 marks)
7) a) Write short notes on two major types of waves	s. (4,marks)
b) Explain any two landforms produced by depo	ositional waves. (2 marks)
8) Basing on any four evidences, prove that the ea in shape.	rth is spherical (4 marks)
9) With the help of a well labelled diagram, indicat formed by a glacier.	te types of moraines (3 marks)
10) a) What does the term folding mean?	(1 mark)
b) With relevant examples discuss the impact system.	t of folding on drainage (4 marks)
11) Explain three types of rocks.	(3 marks)
12) Draw and interpret rock and debris falls.	(4 marks)
13) Name three conditions necessary for the gro	
14) Distinguish between vulcanicity and volcani	
15) State two characteristics of faulted lakes.	
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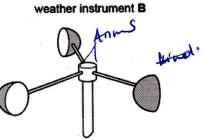
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16) Discuss factors that affect soil fertility.

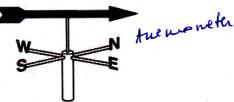
(10 marks)

17) The figure below shows three weather instruments (**A**, **B** and **C**).





weather instrument C



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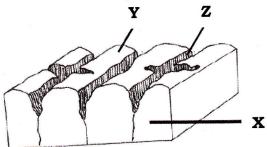
- a) Name the weather instruments marked A, B and C. (3 marks)
- b) How does the weather instrument A work? (3 marks)
- c) State the uses of the weather instruments marked

 B and C.

 (2 marks)
- d) Where are the weather instruments **B** and **C** placed at a weather station? Give a reason for your answer. (2 marks)
- a) Define the term climate change.
 b) Explain the causes of desertification in the world.
 (2 marks)
- 19) a) Explain the factors responsible for the distribution of vegetation in Rwanda. (5 marks)
 - b) Identify the characteristics of a coniferous forest. (5 marks)
- 20) a) What does the term Karst scenery mean? (2 marks)
 - b) State three factors that influence the development of a karst land form.

(3 marks)

instructive wave instructive wax. c) The diagram below shows a feature in a Karst landscape. Study it and answer the questions that follow.



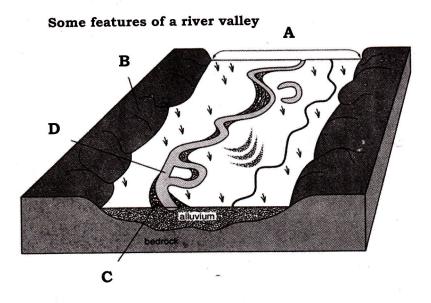
i) Name the parts marked X, Y and Z.

(3 marks)

ii) Describe how the features marked Y and Z are formed.

(2 marks)

21) The diagram below shows a plate boundary. Study it and answer the questions that follow.



a) Identify the features marked: **A,B,C** and **D**.

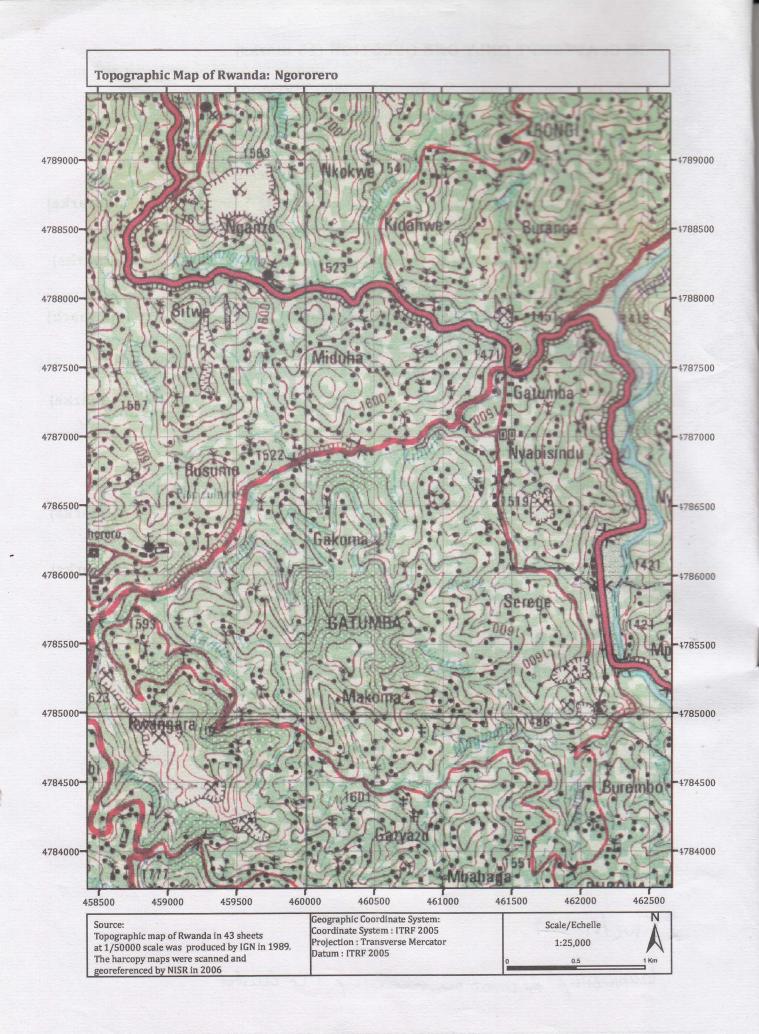
(4 marks)

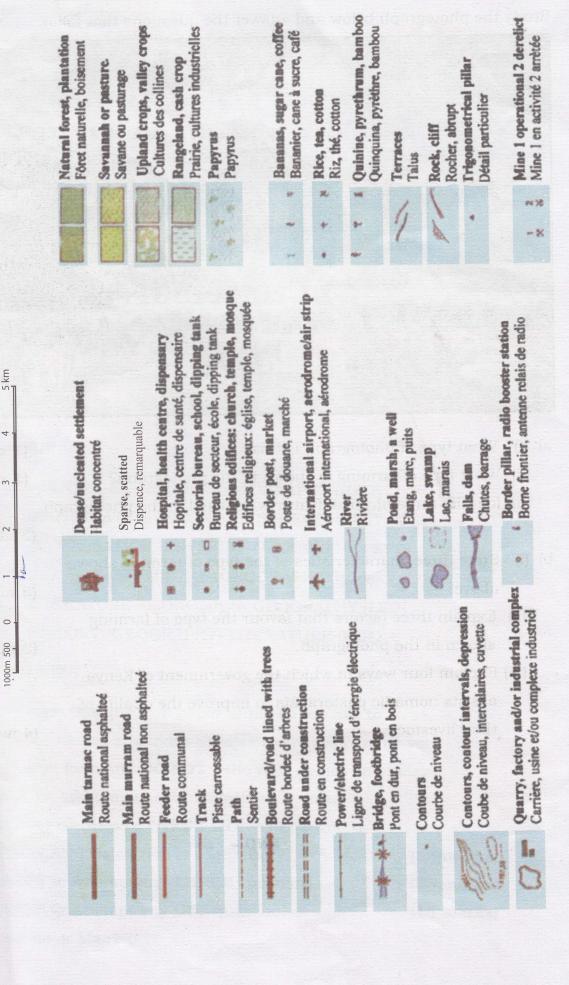
b) Describe any three features you have identified in (a) and explain how each was formed.

(6 marks)

SECTION C: ATTEMPT ONLY ONE QUESTION (15 marks) Study the map extract of Ngororero 1: 25000 (Rwanda) 22) and answer the questions that follow. a) (i) Give four figure and six figure grid references of Gatumba 1 Sia minimum road junction. (ii) Calculate the vertical exaggeration of the cross section. (2 marks) Use a scale of 1 cm to represent 25 meters. (iii) Calculate the distance in kilometers of the main river (1 mark) in the western part of the map extract. b) Describe the drainage system of the area covered by (4 marks) the map extract. c) (i) Apart from trading, name two other economic activities that appear in the area of Ngororero covered by the (2 marks) map extract. (ii) Using evidences from the map extract, explain four factors that favour trading in the area covered by the map extract. (4 marks) 15000 112500 x6. 1125000 X 1125000

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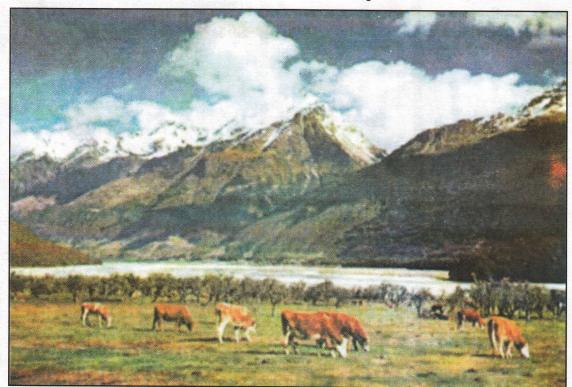




SCALE/ECHELLE 1:25.000

mass hasting -7

23) Study the photograph below and answer the questions that follow.



a) (i) What type of photograph is this? (1 mark) (ii) What type of farming is shown in the photograph? (1 mark) (iii) Identify three physical features depicted in the photograph. (3 marks) State three characteristics of the type of farming shown above. (3 marks) (ii) Explain three factors that favour the type of farming shown in the photograph. (3 marks) (iii) Explain four ways in which the government of Kenya assists nomadic pastoralists to improve the quality of their livestock. (4 marks)