Geography and environment I

005

01/08/2022

08.30 AM - 11.30 AM



ORDINARY LEVEL NATIONAL EXAMINATIONS, 2021-2022

SUBJECT: GEOGRAPHY AND ENVIRONMENT I

PAPER I: PHYSICAL GEOGRAPHY

DURATION: 3 HOURS

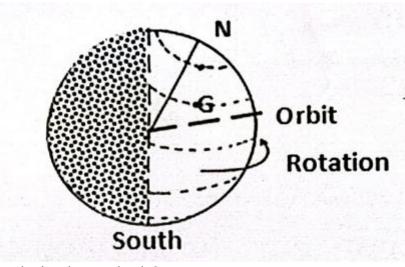
INSTRUCTIONS:

- 1) Write your names and index number on the answer booklet as they appear on your registration form, and **DO NOT** write your names and index number on additional answer sheets of paper if provided.
- 2) Do not open this paper until you are told to do so.
- 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 only a **blue** or **black pen**.

SECTION A: Attempt all questions from this section.

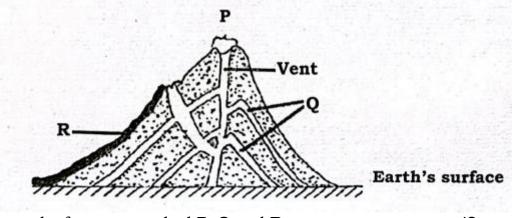
(55 marks)

1) The diagram below represents the earth's rotation on its axis. Study it and then answer the questions that follow.

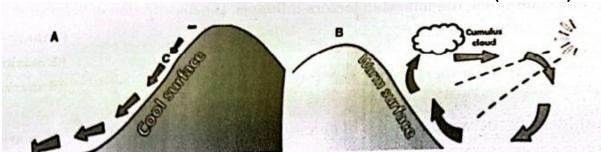


	a) i) Name the latitude marked G	(1 mark)
	ii) What is the angle of inclination of the earth's axis from	
	b) Examine the effects of the earth's revolution.	(1 mark) (2 marks)
2)	When the local time is 2:00 pm at longitude $45^{\circ}E$, what is the a place whose local time is 10:30 am?	longitude of (2 marks)
3)	Name three countries where river Nile flows.	(3 marks)
4)	Name any three layers of the earth's atmosphere.	(3 marks)

5) The diagram below is a composite volcano.



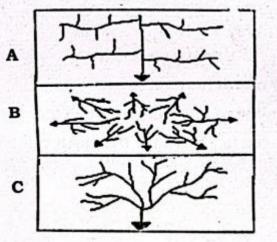
(3 marks) (2 marks)



6) Give and explain names of local winds labelled A and B in the figure below. (4 marks)

7)	a) What is climate? b) Identify characteristics of tundra climate.	(1 mark) (4 marks)
8)	Water cycle? Explain with a diagram.	(4 marks)
9)	Draw a sketch map of Rwanda and locate the following:	(4 marks)
	 a) Akagera savannah b) Birunga rain forest c) Nyungwe rain forest d) Gishwati rain forest 	
10)) Identify the main forms of continental relief.	(3 marks)
11)	Briefly describe the relief of Rwanda.	(3 marks)
12)) a) What is vegetation?	(1 mark)
	b) State any three characteristics of tropical rain forest.	(3 marks)

13) a) Study the diagram below and name each of the three river patterns labelled A, B and C. (3 marks)



Compiled by HUNGURIMANA Dieudonné, 0788473140, ENDP KARUBANDA, HUYE

b) Explain each of the river patterns named in (a) above.	(3 marks)
14) Explain the term biological weathering.	(2 marks)
15) Outline three effects of environmental degradation.	(3 marks)

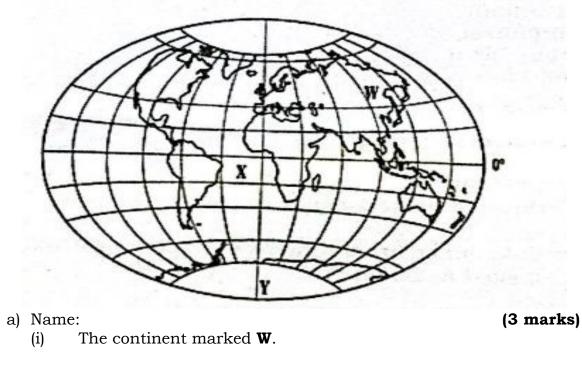
SECTION B: Attempt only three questions (30 marks)

16) a) Explain how the following factors influence the distribution of vegetation:

(i) Relief (ii) Soils	(2 marks) (2 marks)
b) Explain the importance of vegetation.	(6 marks)
17) a) Identify the major causes of climate change in Rwanda.	(4 marks)
b) Explain three ways used in environmental conservation.	(6 marks)
18) a) Differentiate a soil profile from a soil catena.	(2 marks)

b) By the aid of a well labelled diagram, describe a soil profile. (8 marks)

19) Study the map below and answer the questions that follow.



- (ii) The ocean marked **X**
- (iii) The line of longitude marked **Y**.

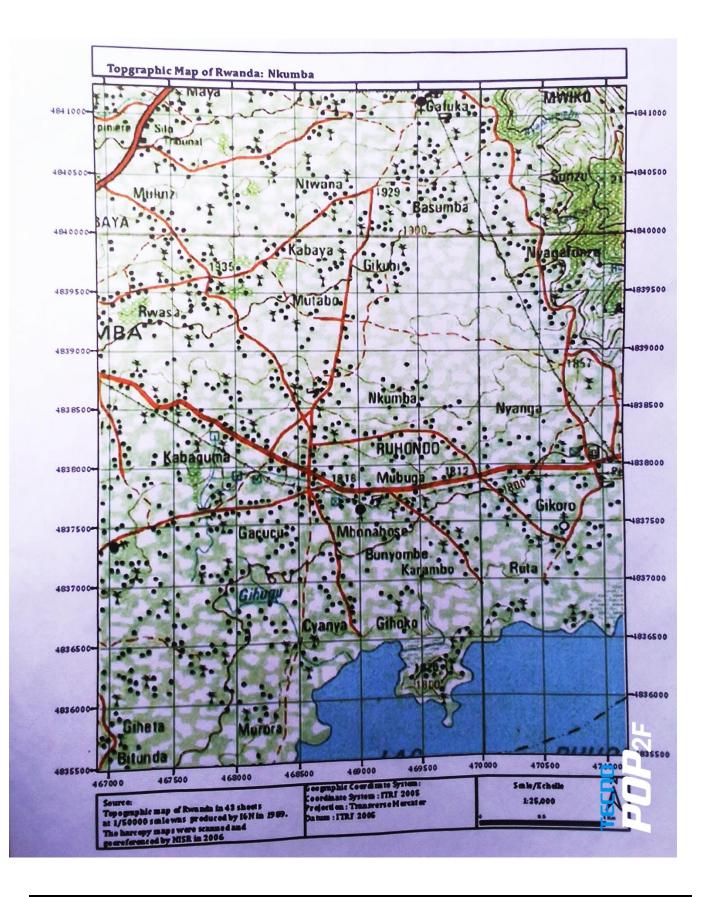
b) Give any two evidences to show that the earth rotates from	dences to show that the earth rotates from west to east.	
c) State two effects of the rotation of the earth on its axis.	(2 marks) (2 marks)	
d) Describe the structure of the earth's crust.	(3 marks)	
20) a) List any five characteristics of tropical climate.	(5 marks)	

b) Assess the influence of climate on human activities in the world.

(5 marks)

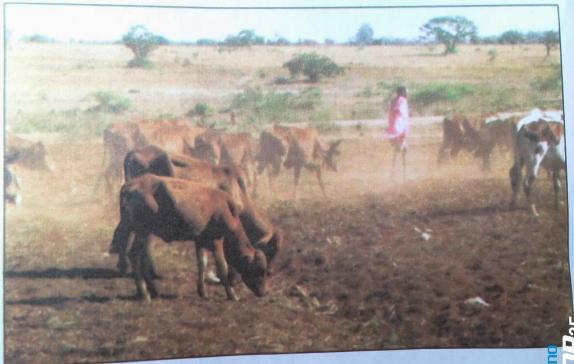
SECTION C: ATTEMPT ANY ONE QUESTION. (15 marks)

- 21) Study the map extract of Nkumba 1 : 25000 (RWANDA) and answer the questions that follow:
 - a) Describe the relief of the area covered by the map. (4 marks)
 - b) With evidence from the map, identify social services available in the area covered by the map extract. (3 marks)
 - c) State four economic uses of the main physical feature in the south of the area covered by the map. (4 marks)
 - d) Explain four factors which have influenced the distribution of settlement in the area covered by the map. (4 marks)





22) Study the photograph below which shows cattle rearing in Kenya and answer the questions that follow:



a) (i) Identify the type of photograph. (ii) Describe the features shown in the photograph.

(1 mark) (3 marks)

- b) (i) State two evidences which show that the area was experiencing drought when the photograph was taken. (2 marks)
 - (ii) Give three reasons why nomadic pastoralists keep large heads.

(3 marks)

- c) Explain any three problems faced by nomadic pastoralists in Kenya.
 (3 marks)
- d) Explain three measures taken by the government of Kenya to improve beef cattle farming. (3 marks)