## Geography and Environment I 005

31/07/2023 08:30 AM - 11:30 AM



ORDINARY LEVEL NATIONAL EXAMINATIONS, 2022-2023

SUBJECT: GEOGRAPHY AND ENVIRONMENT I

PAPER I: PHYSICAL GEOGRAPHY

**DURATION: 3 HOURS** 

## 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. (60 marks)

SECTION B: Attempt any TWO questions. (30 marks)

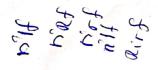
SECTION C: This section is compulsory. (10 marks)

4) Use a blue or black pen.

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## SECTION A: Attempt all questions. (60 marks)

1) List any four effects of the earth's rotation. (4 marks) 2) a) Name two discontinuities available in the internal (2 marks) structure of the earth. b) Name any three main parts of the external structure (3 marks) of the earth. (2 marks) 3) a) Give any two characteristics of igneous rocks. (2 marks) b) Explain how sedimentary rocks are formed. (2 marks) 4) a) What is weather forecasting? (4 marks) b) Give any four elements of weather. (3 marks) 5) Give any three characteristics of mangrove vegetation. (4 marks) 6) Name any four outlet rivers in Africa.



7) Explain how the following agents cause soil erosion.	
a) Heavy rainfall	(2 marks)
b) Steep slopes	
c) Winds	(2 marks)
	(2 marks)
8) Explain any three factors that affect soil formation.	(6 marks)
9) Identify any four characteristics of birunga forests.	(4 marks)
10) a) What is a Stevenson screen?	(2 marks)
b) State any three qualities of a Stevenson screen.	(3 marks)
11) Differentiate between active and dormant volcanoes and	
give an example of each.	
	(4 marks)
) Mention any five characteristics of equatorial climate.	(5 marks)
Briefly evaluate the impact of	
Briefly evaluate the impact of pollution to human beings	
and their surroundings.	
	(4 marks)
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2023-NESA (National Examination and School Inspection Authority)	
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## SECTION B: Attempt any two questions. (30 marks)

14)	Discuss the measures that are put in place to conserve		
	the environment.	(15	marks)

- 15) Propose the measures that should be taken to minimize the spread of aridity and desertification. (15 marks)
- 16) a) i) What is meant by lava damming? (2 marks)
  - ii) Name two lava dammed lakes in Rwanda. (2 marks)
  - b) Why do most rivers of Rwanda flow Eastwards? (3 marks)
- c) Explain the effects of the river reversal in Rwanda. (4 marks)
  - d) List any four African rift valley lakes. (4 marks)

roll

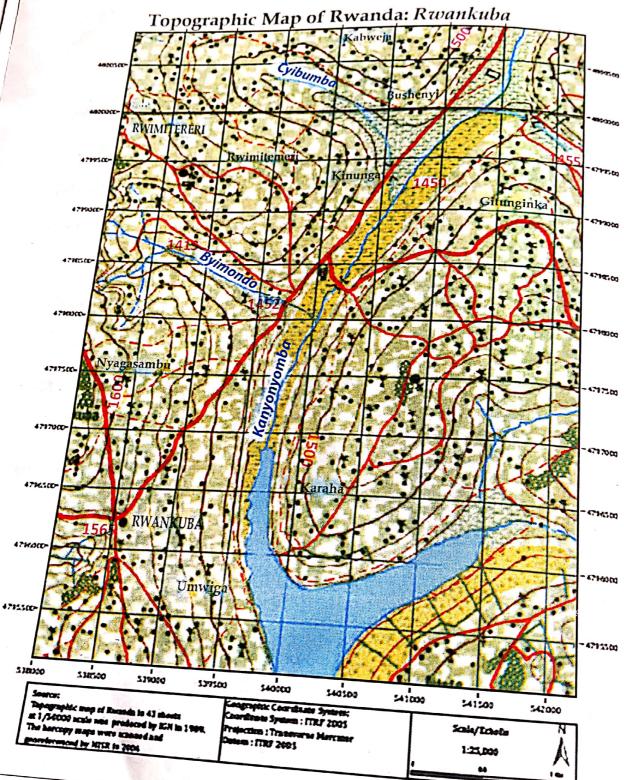
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SECTION C: This question on map work is compulsory (10 marks)

17) Study the map of Rwankuba 1:25000 provided and answer the questions that follow.



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Route en construction Road under construction



Route national asphaltée Main tarmac road

Route national non asphaltée Main murram road

4

Sparse, scatted

Habitat concentre

Dense/nucleated settlement

Dispence, remarquable

Route communal Feeder road

Irack

Piste carrossable

Path

Route bordeé d'arbres Boulevard/road lined with trees Sentier



Bureau de secteur, école, dipping tank Sectorial bureau, school, dipping tank



Hospital, health centre, dispensary Hopitale, centre de santé, dispensaire



Religious edifices: church, temple, mosque











Edifices religieux: église, temple, mosque

Border post, market

International airport, aerodrome/air strip Post de douane, marché



Ligne de transport d'énergie électrique

Power/electric line

Aéroport international, aerodrome Rivière River



Etang, marc, puits Pond, marsh, a well

Bridge, footbridge

Pont en dur, pont en bois



Courbe de niveau

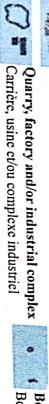
Contours

Falls, dam Lac, marais



Courbe de niveau, intercalaires, cuvette Contours, contour intervals, depression

Chutes, barrage



Borne frontier, antenne relais de radio Border pillar, radio booster station



**Papyrus** Papyrus Rangeland, cash crop Cultures des collines

Prairie, cultures industrielles

Bananas, sugar cane, coffee

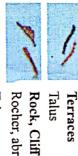
Bananier, cane à sucre, café



Rice, tea, cotton Riz, thé, cotton



Quinine, pyrethrum, bamboo Quinquina, pyrèthre, bamboo



Rocher, abrupt Détail particulier Trigonometrical pillar



Mine 1 operational 2 derelict Mine 1 activité 2 arrètée

Natural forest, plantation Fôrest naturelle, boisement Savannah or pasture

Savane ou pasturage

Upland crops, valley crops

a) Identify the drainage patterns shown in the map.

(2 marks)

- b) Show the highest and the lowest altitude of the area covered by the map. (2 marks)
- c) Show three main activities that are shown in the map and justify each activity.

  (6 marks)

END