Geography and environment I

005

26/07/2021

08.30 AM - 11.30 AM



ORDINARY LEVEL NATIONAL EXAMINATIONS, 2020-2021

SUBJECT: GEOGRAPHY AND ENVIRONMENT I

PAPER I: PHYSICAL GEOGRAPHY

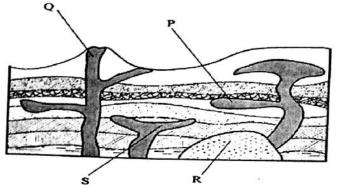
DURATION: 3 HOURS

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. Differentiate between mean annual temperature range an temperature.	d mean monthly (2 marks)	
2. Briefly describe effects of rotation of the Earth.	(3 marks)	
3. Describe how mudflow if formed.	(4 marks)	
4. Explain how the following farming practices cause soil era) Burningb) Monocultures.	osion. (2 marks) (2 marks)	
5. a) What is a river divide?b) Describe three ways by which a river transports its loa	(2 marks) d. (6 marks)	
6. How can water cause both chemical and physical weather	ring? (2 marks)	
7. Why are granitic magmas thicker than basaltic magmas?	(2 marks)	
8. Describe how lava domes are formed.	(4 marks)	
9. Explain the negative effects of climate change or environment.	n the physical (5 marks)	
10. Explain how the following factors influence the distributiona) Relief.b) Soils.	on of vegetation: (2 marks) (2 marks)	
11. Describe three causes of vulcanicity.	(3 marks)	
12. Explain four ways in which the clearing of vegetation in natural environment in Rwanda.	has affected the (4 marks)	
13. Describe the processes of formation of each of the following types of		
sedimentary rocks. a) Mechanically formed sedimentary rocks. b) Organically formed sedimentary rocks.	(4 marks) (4 marks)	
14. What is meant by environmental degradation?	(2 marks)	
SECTION B: Attempt only three questions	(30 marks)	
15. a) Describe four factors that influence river erosion.b) Explain how stream cut Valleys are formed.	(4 marks) (6 marks)	

16. The diagram below shows some intrusive volcanic features.



a) Name the features marked Q, P, S and R. (2 marks)
b) Explain ways in which volcanic features influence human activities. (8 marks)

17. a) Explain how the following factors influence soil formation.

(i) Time.	(2 marks)
(ii) Parent rock.	(4 marks)
b) Describe four negative effects of soil formation.	(4 marks)
18. a) Explain how the following features are formed and f example from East Africa:	or each, give an
(i) A crater	(3 marks)

(ii) A geyser.	(4 marks)
(iii) A lava plateau.	(3 marks)

19. a) Explain four main causes of climate change in Rwanda. (4 marks)

b) Suppose you have been appointed by the ministry of environment as a specialist in charge of climate change, what mitigation measures would you put in place to avoid the increase of pollutant emissions? **(6 marks)**

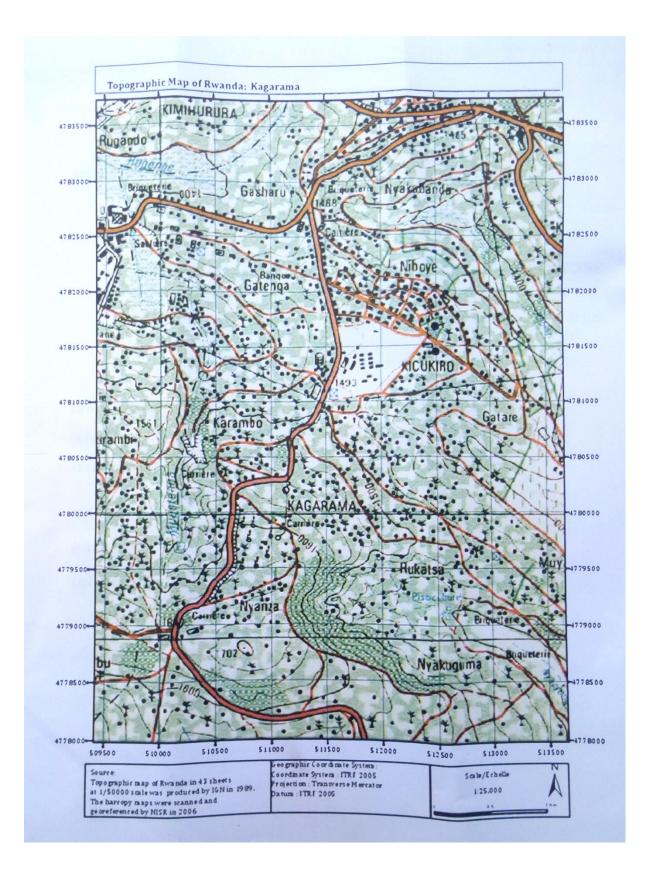
SECTION C: Attempt any one question

(15 marks)

20. Study the map extract of Kagarama and answer the questions that follow:a) Draw a sketch map of the area shown on the map extract and on it, mark and name:

(i) Gatenga Banque.	(1 mark)
(ii) Quarry.	(1 mark)
(iii) Major transport network.	(1 mark)

- b) Using evidence from the map extract, describe four major economic activities carried out in Kagarama. (4 marks)
- c) Describe the factors that influence establishment of man-made features. (4 marks)
- d) Explain the problems likely to face by the people living in the area. **(4 marks)**





21. Study the photograph below and answer the questions that follow:



(a) What is the main activity shown in the photograph above? (2 marks)

- (b) (i) Name one geographical region in Rwanda where the activity identified in 21 (a) above is widely practiced. (1 mark)
 - (ii) Explain the geographical conditions that favour the activity identified in 21 (a) above. (8 marks)
- (c) In what ways has the economic activity mentioned in (a) and (b) above been improved in Rwanda?(4 marks)