

GEOGRAPHY

GEO 01

01/08/2022 08:30 AM – 11:30 AM



NESA NATIONAL EXAMINATION
AND SCHOOL INSPECTION
AUTHORITY

TTC NATIONAL EXAMINATIONS, 2021-2022

SUBJECT: GEOGRAPHY

OPTION: SOCIAL STUDIES EDUCATION (SSE)

DURATION: 3 HOURS

INSTRUCTIONS:

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

SECTION A: Attempt **ALL** questions. **(55 marks)**

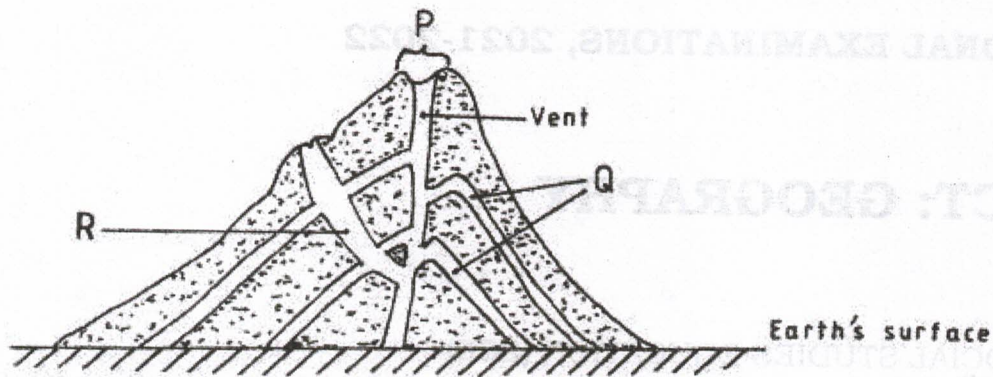
SECTION B: Attempt any **THREE** questions. **(30 marks)**

SECTION C: Attempt any **ONE** question. **(15 marks)**

- 4) Use only **blue** or **black** pen.

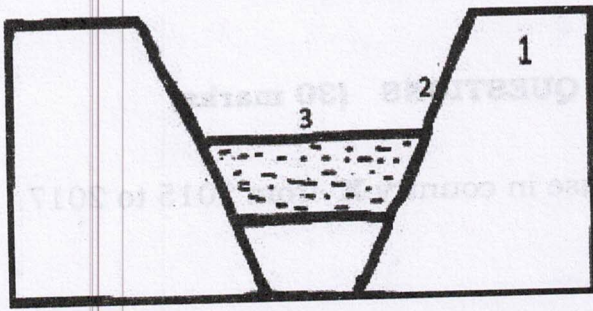
SECTION A: ATTEMPT ALL QUESTIONS (55 marks)

- 1) Suppose that the local time at Greenwich Meridian is 12:00. What will be the local time at Kigali which is on longitude 30° East? **(3 marks)**
- 2) Study the diagram below which shows a composite volcano and answer the questions that follow.

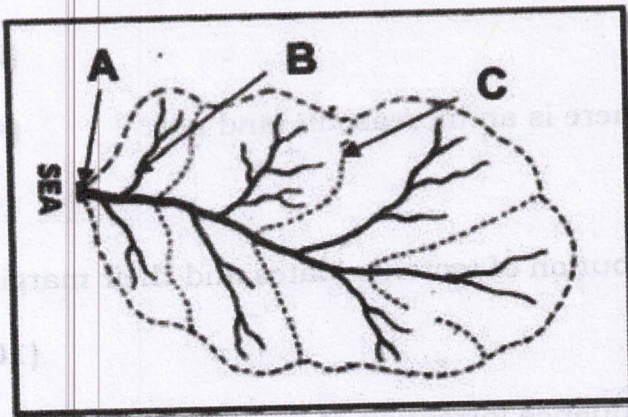


- a) Name the features marked **P**, **Q** and **R**. **(3 marks)**
- b) How is a parasitic cone formed? **(2 marks)**
- 3) Basing on any six evidences, prove that the earth is spherical in shape. **(6 marks)**
- 4) a) Differentiate between a soil profile and a soil catena. **(2 marks)**
b) Explain how the following factors influence soil formation: **(6 marks)**
 - i) Climate.
 - ii) Living organisms.
 - iii) Topography.

- 5) Study the diagram of a faulted structure below and answer the questions that follow



- a) Name the features numbered **1**, **2** and **3**. **(3 marks)**
- b) State four effects of faulting on the drainage system of an area. **(4 marks)**
- 6) List any five elements of weather and climate. **(5 marks)**
- 7) Identify three factors that influence vegetation distribution in Rwanda. **(3 marks)**
- 8) Outline any three factors that contribute to the formation of metamorphic rocks. **(3 marks)**
- 9) Study the figure below and answer the questions that follow.



- (a) What does the figure above represent? **(1 mark)**
- (b) Names the features marked **A**, **B** and **C**. **(3 marks)**
- 10) State three reasons why countries conduct population census. **(3 marks)**
- 11) Examine the impact of world urbanization on the environment. **(3 marks)**
- 12) Describe opencast method of mining. **(2 marks)**

- 13) Identify three reasons why the Southern African Development Co-operation (SADC) was formed. **(3 marks)**

SECTION B: ATTEMPT ANY THREE QUESTIONS (30 marks)

- 14) The table below shows the land use in country **X** from 2015 to 2017.

Year	Activity per hectares ('000 ha)
2015	250
2016	350
2017	650

Using the data provided in the table above, answer the following questions:

- a) Draw a simple line graph to represent the above information. **(4 marks)**
- b) Comment on the trend of the land use in country **X** from 2015 to 2017. **(2 marks)**
- c) Explain the reasons why there is an increase in land use. **(4 marks)**
- 15) Assess the impact of the distribution of tectonic plates and their margins. **(10 marks)**
- 16) a) Explain 4 conditions that influence formation of limestone landforms. **(4 marks)**
- b) Explain any three factors that influence mass wasting. **(6 marks)**
- 17) Explain the causes of desertification in the world. **(10 marks)**

18) Explain the basis for the reinforcement of Made in Rwanda programme.

(10 marks)

SECTION C: ATTEMPT ANY ONE QUESTION (15 marks)

19) Study the map extract of Ntarama 1: 25000 (Rwanda) and answer the questions that follow.

a) i) Name the type of cartographic projection used to produce the map extract.

(1 mark)

ii) Using a vertical scale of 1cm to represent 50 meters, calculate the vertical

exaggeration of the cross section.

(2 marks)

iii) Describe the relief of the area covered by the map extract.

(3 marks)

b) Identify four problems related to the natural relief of the area covered by the map extract.

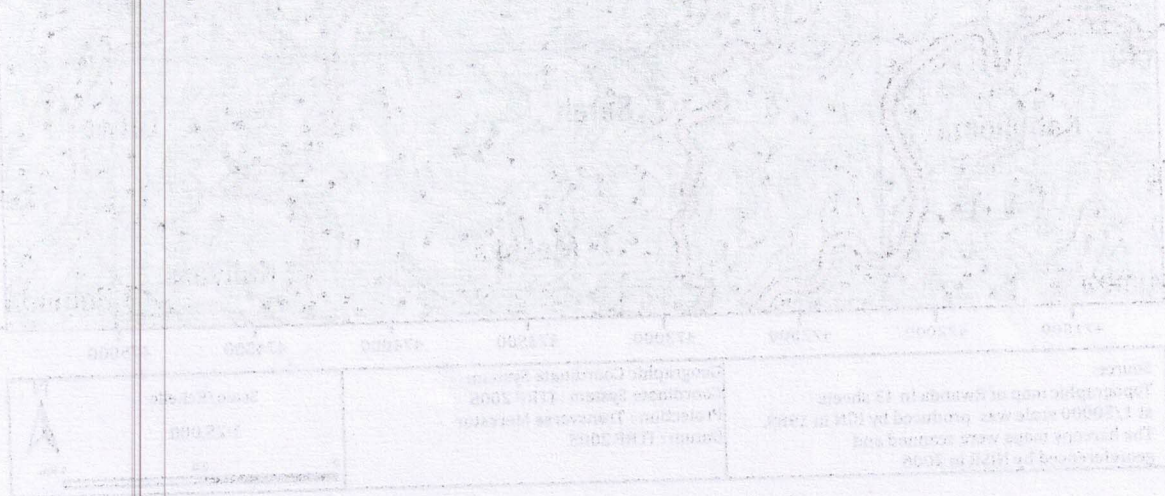
(4 marks)

c) Basing on evidence, explain the main drainage pattern in the area covered by the map extract.

(2 marks)

d) Calculate the area of the lake in the north of the map extract and give the area in square kilometres.

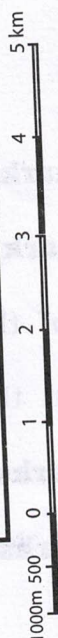
(3 marks)



Topographic Map of Rwanda: Ntarama



SCALE/ECHELLE 1:25.000



Dense/nucleated settlement Habitat concentré		Natural forest, plantation Forêt naturelle, boisement	
Main tarmac road Route national asphaltée		Savannah or pasture Savane ou pâturage	
Main marram road Route national non asphaltée		Upland crops, valley crops Cultures des collines	
Feeder road Route communal		Rangeland, cash crop Prairie, cultures industrielles	
Track Piste carrossable		Papyrus Papyrus	
Path Sentier		Bananas, sugar cane, coffee Bananier, canne à sucre, café	
Boulevard/road lined with trees Route bordée d'arbres		Rice, tea, cotton Riz, thé, coton	
Road under construction Route en construction		Quinine, pyrethrum, bamboo Quinquina, pyrèthre, bambou	
Power/electric line Ligne de transport d'énergie électrique		Terraces Talus	
Bridge, footbridge Pont en dur, pont en bois		Rock, cliff Rocher, abrupt	
Contours Courbe de niveau		Trigonometrical pillar Détail particulier	
Contours, contour intervals, depression Coube de niveau, intercalaires, cuvette		Mine 1 operational 2 derelict Mine 1 en activité 2 arrêtée	
Quarry, factory and/or industrial complex Carrière, usine et/ou complexe industriel			

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



- a) i) Name the type of photograph shown above. **(1 mark)**
ii) Identify the activity being carried out in the photograph. **(1 mark)**
- b) Draw a rectangle measuring 12cm by 8cm to represent the area of the photograph and on it, sketch and label four main features shown in the photograph. **(4 marks)**
- c) i) Give two methods used to preserve fish in Kenya **(2 marks)**
ii) State three problems that fishermen in Lake Tanganyika experience. **(3 marks)**
- d) Outline four differences between fishing in Kenya and in Japan. **(4 marks)**

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