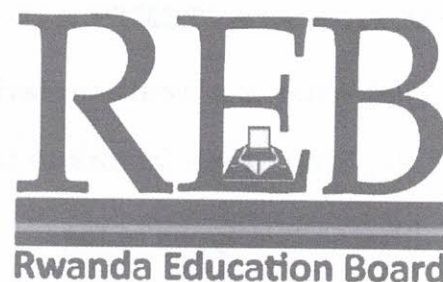


Geography I 005 16/11/2015 8.30AM- 11.30AM
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ORDINARY LEVEL NATIONAL EXAMINATIONS, 2015

SUBJECT: GEOGRAPHY

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 question paper until you are told to do so.

3. This paper has **THREE** sections **A, B** and **C**.

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

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

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

4. Use blue or black pen.

SECTION A: ATTEMPT ALL QUESTIONS. (55 MARKS)

- 1)(a) What is a weather station? **(1mark)**
(b) State three factors to be considered when setting up a weather station. **(3marks)**
- 2) Name two types of fog. **(2marks)**
- 3) Outline two characteristics of the thermosphere / ionosphere. **(3marks)**
- 4) Give three reasons why the length of day and night differ at different times of the year. **(3marks)**
- 5)(a) What is meant by the term "eclipse"? **(1mark)**
(b) With the help of a diagram, explain how lunar eclipse occurs. **(5marks)**
- 6) What is the name of an instrument used in measuring the rate of evaporation? **(1mark)**
- 7) Describe the two types of aerial photographs below:
(a) Vertical aerial photograph. **(2marks)**
(b) Oblique aerial photograph. **(2marks)**
- 8) With the help of a diagram, describe how a Rain gauge is measured. **(8marks)**
- 9) Describe three features of minerals. **(3marks)**
- 10) Explain how the following factors affect chemical weathering:
(a) Steep slopes **(2mark)**
(b) High elevation **(2marks)**
- 11) Briefly describe three characteristics of Cirrus-clouds. **(3marks)**
- 12) Copy and complete the following table of organically formed sedimentary rocks. **(6marks)**

Types of organically formed sedimentary rocks.	Formation processes	Examples
Calcareous		
Siliceous		
Ferruginous		

- 13) Explain two types of earth movements. **(6marks)**
- 14) Briefly describe three causes of earth movements. **(3marks)**

SECTION B: ATTEMPT ANY THREE QUESTIONS. (30MARKS)

- 15) (a) Define the term “fault steps”. **(2marks)**
- (b) Describe two theories that have been advanced to explain the formation of a rift valley. **(8marks)**
- 16) The table below shows climatic characteristics of one station in Africa.

Month	Temperature (°C)	Rain fall (mm)
January	20	118
February	20	118
March	18	75
April	16	61
May	13	22
June	10	9
July	10	8
August	13	10
September	16	25
October	18	69
November	18	116
December	19	117

- (a) Draw a suitable graph to represent the climate of the station. **(4marks)**
- (b) Briefly explain the climatic characteristics of the climate represented by the data in the table. **(3marks)**
- (c) (i) In which hemisphere is the station likely to be located? **(1mark)**
- (ii) Give a reason for your answer in (c) (i). **(1mark)**
- (iii) Name a place in Africa that could be represented by the data. **(1mark)**

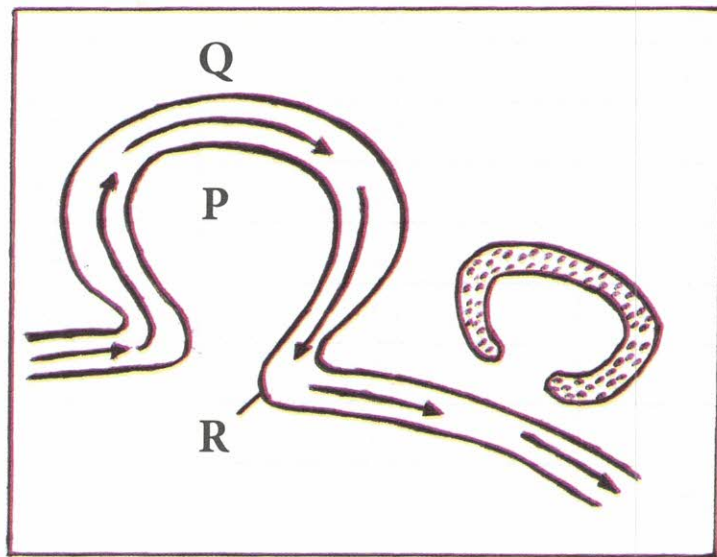
17) Explain the advantages and disadvantages of vegetation forest in Rwanda. **(10marks)**

18) (a) Differentiate slow mass wasting from rapid mass wasting, and give examples of each type of mass wasting. **(4marks)**

(b) Explain three ways in which soil creep occurs. **(3marks)**

(c) Describe three effects of mass wasting on physical and human environment. **(3marks)**

19) The diagram below shows river meanders. Use it to answer questions (a) and (b).



(a) Name the processes that take place at points P and Q. **(2marks)**

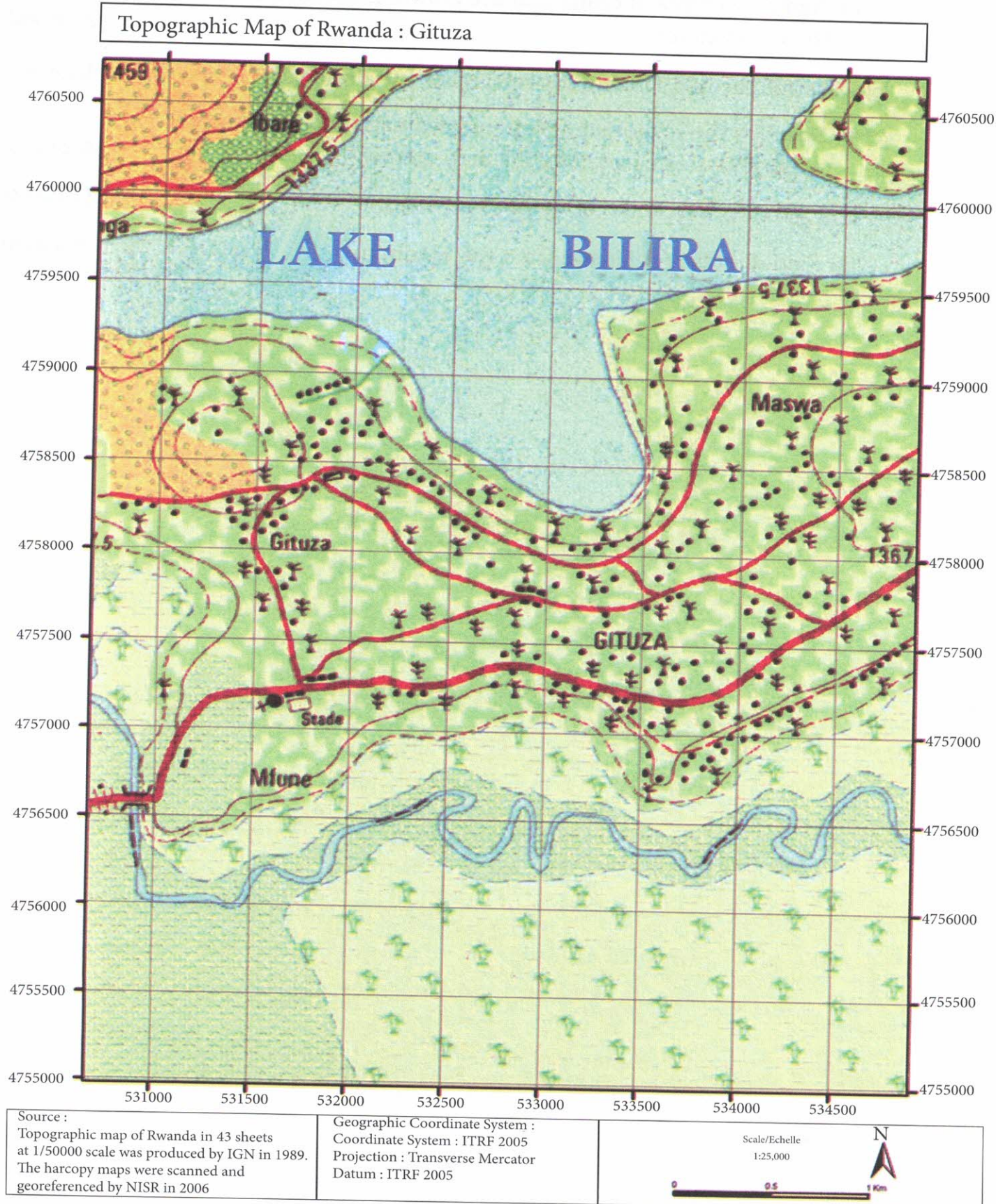
(b) Name the feature formed at point R. **(1mark)**

(c) Explain two causes of river rejuvenation. **(4marks)**

(d) Outline three characteristics of old stage of River. **(3marks)**

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

20) Study the map extract of GITUZA and answer the questions that follow:



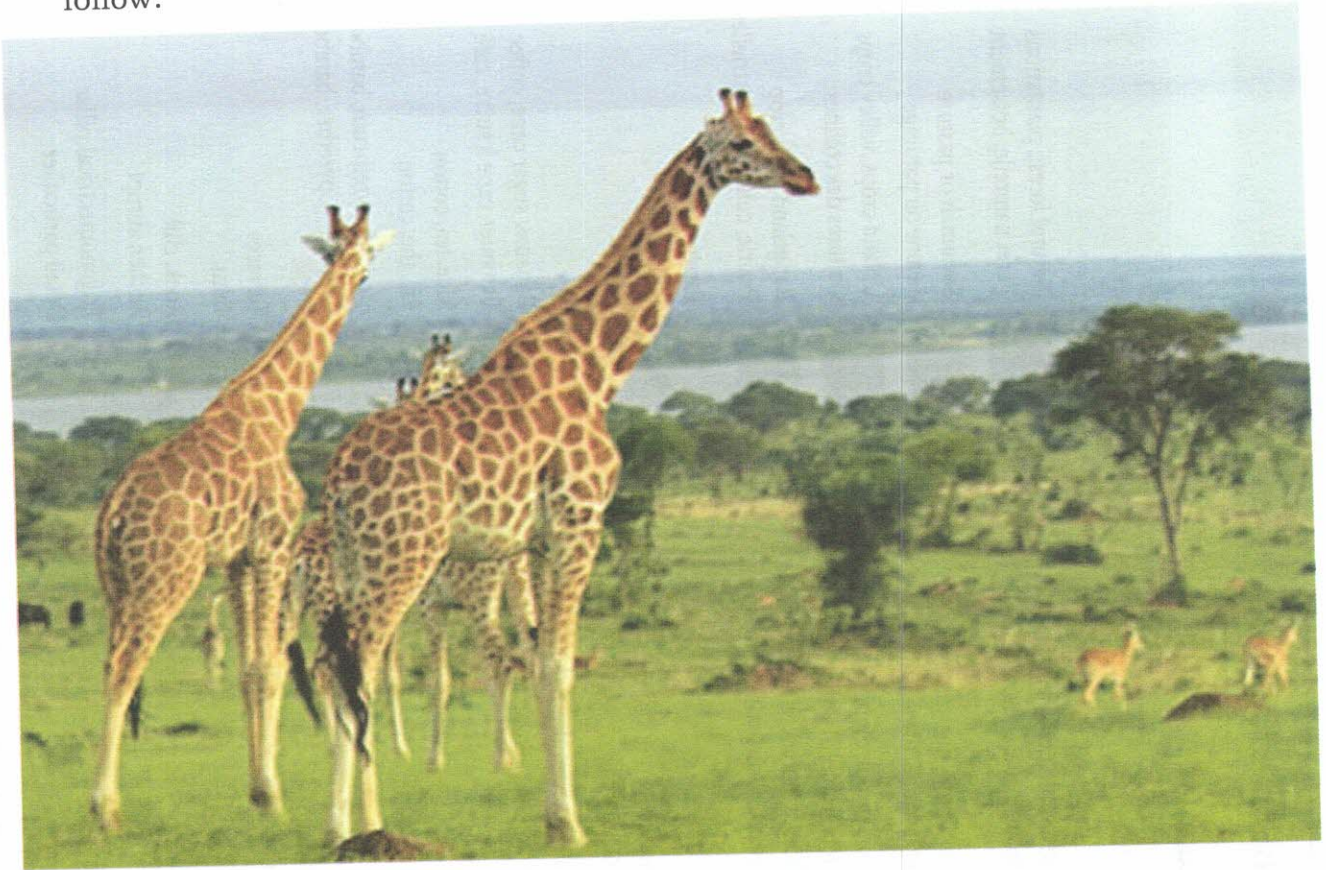
- (a) (i) What is the main activity carried out in the area covered by the map ?
Give evidence to support your answer. **(3marks)**
- (ii) Name two types of crops that are grown in the area covered by
the map extract. **(2marks)**
- (b) Describe the relationship between relief and drainage. **(4marks)**
- (c) (i) Describe the relationship between drainage and settlement
pattern in area covered by the map extract. **(4marks)**
- (ii) Find direction of the Stadium from Maswa. **(1mark)**
- (iii) Find direction of Maswa from the Stadium. **(1mark)**

SCALE/ECHELLE 1:25,000

	Main tarmac road Route nationale asphaltée		Dense/nucleated settlement, sparse, scattered Habitat concentré, dispersé, remarquable		Natural forest, plantations Forêt naturelle, boisement
	Main murrum road Route nationale non asphaltée		Hospital, health centre, dispensary Hôpital, centre de santé, dispensaire		Savannah or pasture Savane ou pâturage
	Feeder road Route communale		Sectorial bureau, school, dipping tank Bureau de secteur, école, dipping tank		Upland crops, valley crops Cultures des collines
	Track Piste carrossable		Religious edifices : Church, temple, mosque Edifices religieux : Eglise, temple, mosquée		Rangeland, cash crop Prairie, cultures industrielles
	Path Sentier		Border post, market Poste de douane, marché		Papyrus Papyrus
	Boulevard/road lined with trees Route bordée d'arbres d'arbres		International airport, aerodrome/air strip Aéroport international, aérodrome		Bananas, sugar cane, coffee Bananier, canne à sucre, café
	Road under construction Route en construction		River Rivière		Rice, tea, cotton Riz, thé, coton
	Power/electric line Ligne de transport d'énergie électrique		Pond, marsh, a well Etang, mare, puits		Quinine, pyrethrum, bamboo Quinquina, pyrèthre, bambou
	Bridge, footbridge Pont en dur, pont en bois		Lake, swamp Lac, marais		Terraces Talus
	Contours Courbe de niveau		Falls, dam Chutes, barrage		Rock, cliff Rocher, abrupt
	Quarry, factory and/or industrial complex Carrière, usine et/ou complexe industriel		Border pillar, radio booster station Borne frontière, antenne relais de radio		Trigonometrical pillar Détail particulier

1 2
x x
Mine 1 operational 2 derelict
Mine 1 en activité 2 arrêtée

- 21) Study the photograph provided below and use it to answer the questions that follow.



- (a) Name the type of photograph shown above. **(2marks)**
- (b) State the economic activity taking place in the photograph. **(1mark)**
- (c) Explain four physical conditions that would discourage the economic activity shown in the photograph on ice-capped mountains in East Africa. **(4marks)**
- (d) Explain parts of a food chain as shown in the photograph. **(2marks)**
- (e) Apart from giraffes and antelopes, name other two wild animals that are found in Akagera National Park. **(2marks)**
- (f) Suggest one area in Rwanda and three areas from East Africa where this photograph might have been taken. **(4marks)**