Geography III 023

15/11/2016

8.30am-11.30am



ADVANCED LEVEL NATIONAL EXAMINATIONS, 2016

SUBJECT: GEOGRAPHY

PAPER III: PHYSICAL GEOGRAPHY

COMBINATIONS: - HISTORY-ECONOMICS-GEOGRAPHY (HEG)

- MATHEMATICS-ECONOMICS-GEOGRAPHY (MEG)

- MATHEMATICS-PHYSICS-GEOGRAPHY (MPG)

- BIOLOGY-CHEMISTRY-GEOGRAPHY (BCG)

- LITERATURE-ECONOMICS-GEOGRAPHY (LEG)

- HISTORY-GEOGRAPHY-LITERATURE (HGL)

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.
- 3) This paper has **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. (55marks)

1) Give any three evidences to show that the earth is spherical.	(3marks)
Briefly describe the continental drift theory using evidences from the southern continents.	(3marks)
3 a) Which movement of the earth causes the tides.b) Explain four types of tides.	(1mark) (4marks)
4) Differentiate between terrestrial radiation and solar radiation.	(2marks)
5) With illustrations, differentiate between katabatic and anabatic winds	s. (3marks)
6 a) Describe the tropical monsoon forest.	(4marks)
b) Name and describe the type of vegetation found in most countries of North Africa.	(3marks)
7 a) Explain two types of igneous rocks.	(2marks)
b) i) Name the type of rocks found in the north west of Rwanda. ii) Give one reason to support your response in 7b(i) above.	(2marks) (1mark)
8) Explain three types of folds.	(3marks)
9) Explain three reasons to explain why temperature reduces with an increase in altitude.	(3marks)
10) Give three factors that affect the formation of river meanders.	(3marks)
11 a) Explain four types of volcanic eruptions.	(4marks)
b) Name at least 2 features formed as a result of the eruptions mentioned in 11(a) above.	(2marks)
12 a) Differentiate between soil profile and soil catena.	(2marks)
b) Describe two factors that influence soil formation.	(2marks)
Explain any four factors that affect the sunshine of an area.	(4marks)
(14) Explain the influence of topography and altitude on climate determination.	(4marks)

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

15 a) Briefly describe the vertical structure of the atmosphere.

(6marks)

b) In what layer of the atmosphere is the ozone layer found?

(1mark)

c) Analyze the way the ozone layer must be protected.

(3marks)

16 a) What is humidity?

(1mark)

b) Name the unit of measurement of humidity.

(1mark)

c) Differentiate between relative humidity and absolute humidity.

(2marks)

d) Explain any three factors that influence humidity.

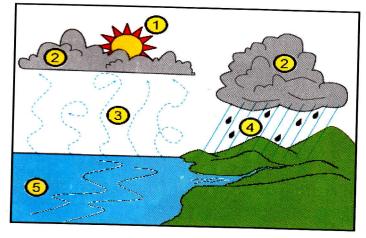
(3marks)

e) Outline any three uses of moisture in atmosphere.

(3marks)

17 a) Name the parts of the water cycle labeled by the numbers in the diagram below.

(5marks)



Merosphero Stratosphero Stroyosphero thermosphero

b) Explain how the water cycle occurs.

(5marks)

18 a) State the differences between rock slumping and rock solifluction.

(2marks)

b) With specific examples, examine the effects of rock slumping on human activities.

(8marks)

19 a) With the aid of diagrams, explain how the following volcanic features are formed:

i) Lopolith

(2marks)

ii) Geyser

(2marks)

b) Discuss the effects of volcanicity on man's activities.

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(6marks)

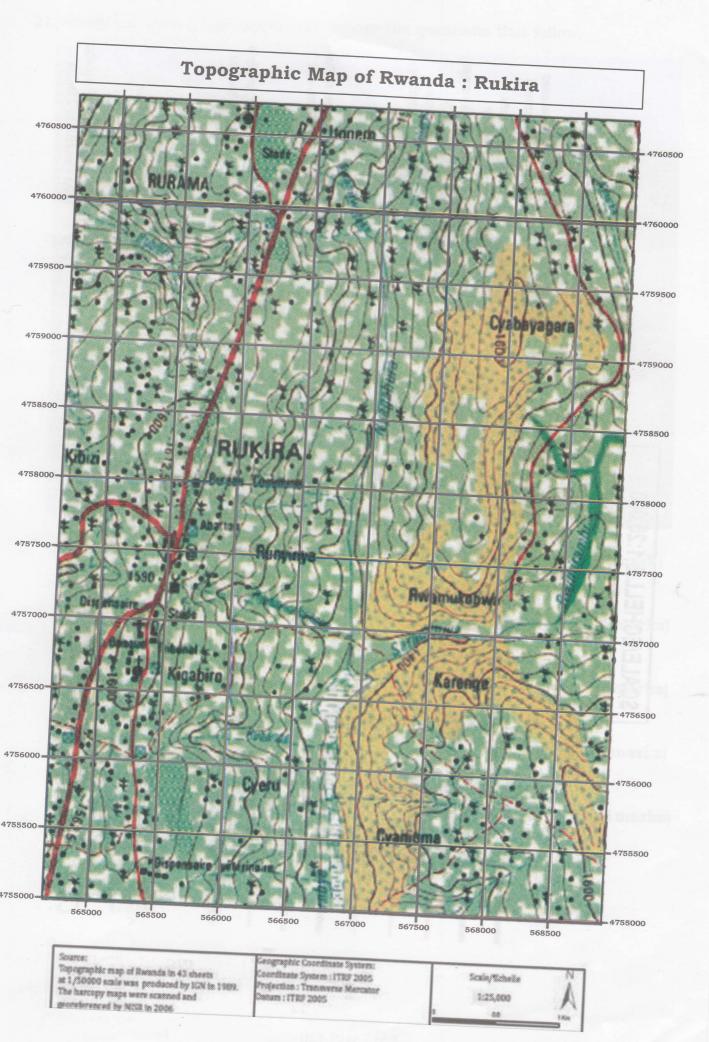
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SECTION C: Attempt one question. (15marks)

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

a) (i) Identify two types of settlements from the map extract.	(2marks)
(ii) Give reasons to support the answer given in 20a)(i) above.	(3marks)
b) (i)Describe the relief of the area covered by the map.	(3marks)
(ii) Describe the vegetation of the area covered by the map.	(3marks)
(iii) Explain the influence of relief on vegetation distribution.	(4marks)



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versal on bois

versal on bois

Nives intervals, depression intercalaires, cavette intercalaires, cavette and/or industrial complex

Falls, dam

Dense/nucleated settlement, sparre, scattered Habitat concentré, disperse, remarquable

Hospital, health centre, dispensary
Hopitale, centre de santé, dispensaire
Sectorial burreau, achool, disping tank
Bureau de secteur, école, disping tank
Religious ediffices; church, temple, mosque
Edifices religioux: égise, temple, mosquée

Border post, market Poste de douane, marché

. International airport, aerodrome/air strip Aéroport international, aérodrome

Rividen

Pont, march of the Control of the Co

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

Natural forest, plantation Foret naturalle, boisement Savannah or pasture. Savano ou pasturage Uphand crops, valley crops Caltures des collines

Rangeland, cash crop Prairie, cultures industrielles Papyrus

Papyrus

Bananies, sugar cane, coffee Bananies, cane à sucre, café

P Rice, ten, cotton Riz, thé, cotton

Quinine, pyrethrum, bamboo Quinquine, pyrethre, bambou

 Roche, cliff Rocher, abrupt Trigonometrical pillar Odeal particulier Mine I operational 2 dereliet Mine I en activité 2 arrètée

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



a) Identify the major activity taking place in the photograph.

(1mark)

b) Describe any two factors that favour the activity identified in 21(a) above.

(3marks)

c) Explain the importance of the activity to the people who live in the area and to the country's economy.

(6marks)

d) Explain the problems that face the activity identified in 21(a) above.

(4marks)

(e) Identify an area in Rwanda where the photograph could have been taken.

(1marks)