

Name Index Number

312/1
GEOGRAPHY
Paper 1
NOV. 2018
2¾ hours

Candidate's Signature.....

Date.....

F  **CUS A365**

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THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
GEOGRAPHY
Paper 1
2¾ hours

Instructions to candidates

- (a) *This paper has **two** sections; **A** and **B**.*
- (b) *Answer **all** the questions in section **A**.*
- (c) *Answer **question 6** and any other **two** questions from section **B**.*
- (d) *All answers must be written in the answer booklet provided.*
- (e) *This paper consists of **7** printed pages.*
- (f) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- (g) *Candidates should answer the questions in English.*

GEOGRAPHY PAPER

1 PREDICTION &

REVISION KIT

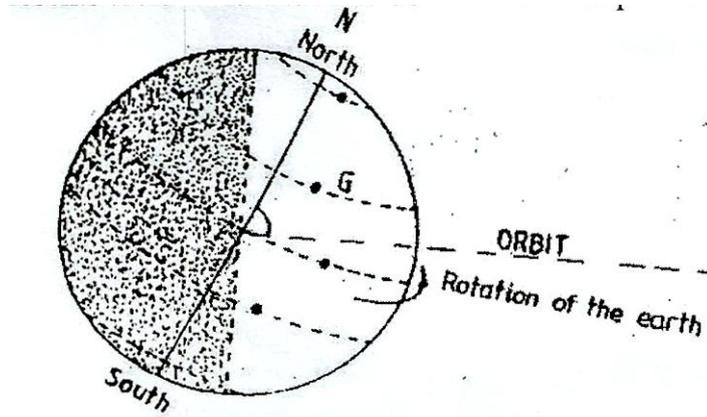
2018

SECTION A

Answer all questions in this section.

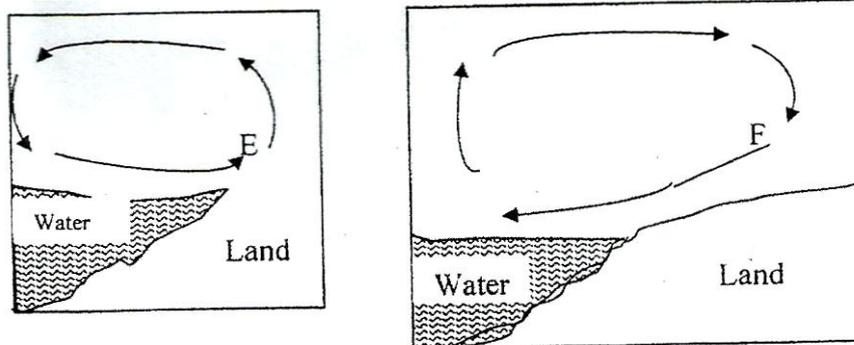
- Give **three** examples of mechanically formed sedimentary rocks. (3mks)
 - State **two** changes that occur in sedimentary rocks when they are subjected to intense heat and pressure. (2mks)

- The diagram below represents the earth on its axis. Use it to answer question (a)



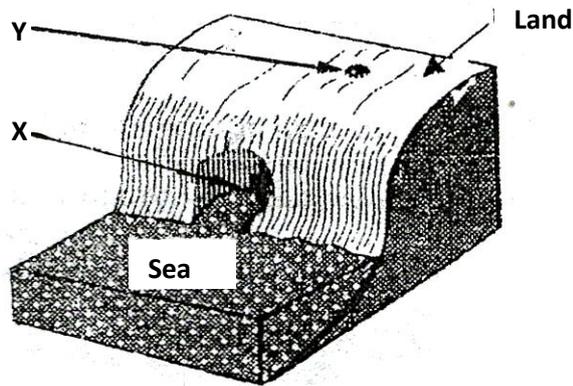
- Name the latitude marked **G** (1 mk)
 - What is the angle of inclination of the earth's axis from its orbit? (1 mk)
 - State **three** ways that make the earth as a planet different from other planets (3mks)
- Name **three** external land forming processes that lead to the formation of lakes (3mks)
 - State **three** ways in which lakes influence the natural environment (3 mks)

- The diagram below represents the flow of air current. Use them to answer question



- In your answer booklet, name the air current marked **E** and **F** (2 mks)
- Give the reason why air cools as it rises (2mks)

- The diagram below represents a coastal landform



- (a) Name the features marked **X** and **Y** (2mks)
- (b) State **three** conditions necessary for the formation of a sand spit. (3mks)

SECTIONS B

Answer questions 6 and any other two questions from this section.

6. Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions.
- (a) (i) Give **two** methods used to show relief on the map (2mks)
- (ii) Give the names of the adjoining map sheets 120/4 and 135/2 (2mks)
- (iii) Convert the map scale into a statement scale. (1mk)
- (iv) State the height of the highest point on the area covered by the map. (2mks)
- (v) Calculate the area of the forest in Kirinyaga District (give your answer in square kilometers) (2mks)
- (b) (i) Name **two** human features found in grid square 8052 (1mk)
- (iii) Draw a rectangle measuring 16cm by 12 cm to represent the area enclosed by Easting's 97 to 05 and Northings 45 to 51 (1mk)
- On the rectangle mark and name the following features:
 - The tree swamp (1mk)
 - The district boundary (1mk)
 - All weather road (bound surface) to Kirinyaga (1mk)
- (c) Describe the drainage of the area covered by the map (4mks)
- (d) Citing evidence from the map, explain **three** factors that influence the distribution of settlements in the area covered by the map. (6mks)
7. (a) (i) A part from the Rift Valley name **two** other relief features that were formed as a result of faulting. (2mks)
- (ii) With the aid of a well labelled diagram, describe how a rift Valley is formed by tensional forces. (8mks)
- (b) Explain **four** effects of faulting (8mks)
- (c) Students are planning to carry out a field study of an area affected by faulting.
- (i) State **four** reasons why it is important for the students to have a pre-visit of the area (4mks)
- (ii) One of the ways they would use to collect data is through direct observation. Give **three** disadvantages of direct observation in the study of such an area. (3mks)
8. (a) (i) What is glaciations? (1mk)

- (ii) Give **three** differences between glacial trough and river valley (3mks)
- (b) (i) State **two** ice ages (4mks)
(ii) Describe **two** ways in which ice moves (4mks)
- (c) (i) State **two** characteristics of a pyramid peak (2mks)
(ii) Name **three** types of Moraines (3mks)
- (d) With a well labeled diagrams, describe the processes involved in the formation of a corrie lake. (6mks)
- (e) Outline **four** ways in which glaciated landscape is of negative significance to human activities. (4mks)
9. (a) Describe how a river erodes its channels by the following process.
- (i) Hydraulic action (2mks)
(ii) Abrasion (2mks)
- (b) (i) Explain **three** factors that lead to rejuvenation of a river (6mks)
(ii) Describe the process of a river capture. (6mks)
- (c) Some students carried out a field study on the feature found along a river.
- (i) List **three** features formed as a result of river erosion. (3mks)
(ii) State **three** methods that students may have used to record their data (2mks)
(iii) Explain **two** ways in which features resulting from river deposition are of significance to human activities. (4mks)
10. (a) (i) Differentiate between weathering and denudation (2mks)
(ii) State **three** factors that influence the rate at which weathering occur. (3mks)
- (b) Explain how the following processes of weathering occur in arid areas.
- Crystal growth (2mks)
 - Exfoliation (2mks)
 - Block disintegration (2mks)
 - Granular disintegration (2mks)
- (c) (i) Apart from soil creep, name **three** other types of slow –mass wasting (3mks)
(ii) State **three** causes of soil creep (3mks)
- (d) Students from a school in Rachuonyo South sub county carried out a field study on land slides.
- (i) Identify **two** ways they must have prepared for the field study. (2mks)
(ii) Name **two** types of rapid mass movement they could have identified. (2mks)
(iii) State **two** effects of rapid- mass wasting they came across. (2mks)