

Name _____ Index No. _____

Candidate's signature _____

Date _____

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST 2014
2 ¾ HOURS

KATHONZWENI SUB-COUNTY FORM 4 PRE-TRIAL EXAMINATION
Kenya Certificate of Secondary Education
GEOGRAPHY
PAPER 1
2 ¾ HOURS

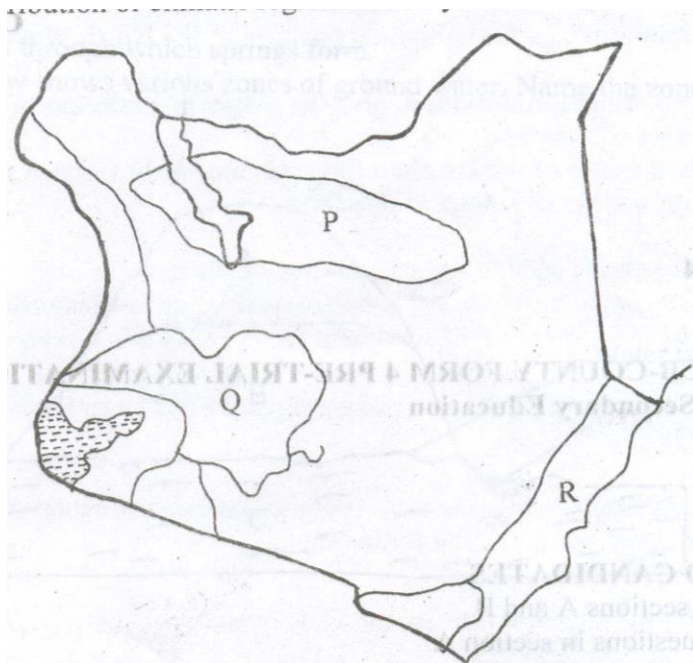
INSTRUCTIONS TO CANDIDATES

- (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 sheets provided.

SECTION A

Answer ALL the questions in this section

1. The map below shows distribution of climatic regions in Kenya. Use it to answer the questions that follow.



- (a) Name the type of climate found in the areas marked P and Q. (2mks)
- (b) State **four** characteristics of the type of climate found in the area marked R. (4mks)
2. (a) Differentiate between a mineral and a rock. (2mks)
- (b) Name the **three** ways in which rocks are classified. (3mks)
3. Outline **four** factors which influence the rate of weathering. (4mks)
4. (a) (i) What is a coast? (2mks)
- (ii) Name **two** types of submerged coasts. (2mks)
- (b) Give **two** factors which enhance coastal deposition. (2mks)
5. (a) Give **two** processes that lead to formation of lakes. (2mks)
- (b) State **two** economic uses of lakes. (2mks)

SECTION B

Answer question 6 and any other two questions in this section

6. Study the map of Karatina (Sheet 121/3) provided and answer the following questions.
- (a) (i) Give the latitudinal and longitudinal position of the North West corner of the map extract. (2mks)
 - (ii) Using the marginal information, give the magnetic variation of the area when the map extract was drawn. (2mks)
 - (iii) Calculate the area of the Bamboo forest on the North Eastern part of the map. (Give your answer in square kilometers). (2mks)
 - (b) (i) Give **two** methods used to represent relief on the map. (2mks)
 - (ii) Measure the distance of the All weather road-bound surface from the junction at Kairithaini (931489) to the junction at Gatei (954568). Give your answer in kilometres. (2mks)
 - (iii) What is the bearing of the cattle dip in square 8749 from the water reservoir in grid square 9252? (2mks)
 - (c) Draw a rectangle measuring 15cm by 10cm to represent the map of Karatina. (1mk)
On the rectangle mark and name the following.
 - (i) Mount Kenya forest. (1mk)
 - (ii) Karatina Township. (1mk)
 - (iii) The District boundary. (1mk)
 - (iv) Moi University Mt. Kenya campus. (1mk)
 - (v) River sagana. (1mk)
 - (d) Identify **two** indicators that Karatina town is an administrative centre. (2mks)
 - (e) Describe the drainage of the area covered by the map. (5mks)
7. (a) (i) Apart from the Rift valley, name **two** other relief features that were formed as a result of faulting. (2mks)
- (ii) With the aid of diagrams, describe how a Rift valley is formed by tensional forces. (8mks)
- (b) Explain **four** effects of faulting on the physical environment. (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) Name **three** types of faults they are likely to study. (3mks)
8. (a) (i) What is the hydrological cycle? (2mks)
- (ii) Draw a well – labeled diagram of the hydrological cycle. (5mks)
- (b) (i) What is the difference between a river tributary and a distributary? (2mks)

- (ii) State **four** factors which influence the ability of a river to deposit materials. (4mks)
 (iii) Describe **three** ways by which a river transport its load. (6mks)

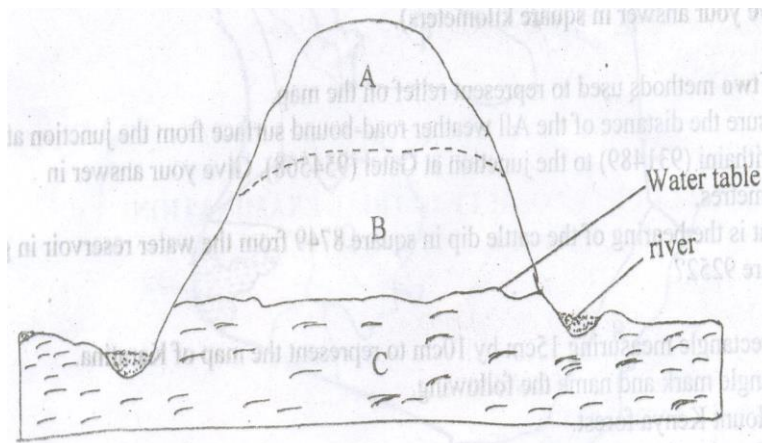
(c) Describe the following drainage systems:

- (i) Superimposed drainage. (4mks)
 (ii) Antecedent drainage. (2mks)

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9. (a) (i) What is ground water? (2mks)
 (ii) List **four** sources of ground water. (4mks)
- (b) (i) Outline **four** ways through which springs form. (4mks)
 (ii) The diagram below shows various zones of ground water. Name the zones marked A, B and C. (3mks)



- (c) (i) Name **three** features which form on the surface of a Karst scenery. (3mks)
 (ii) Draw a diagram to show an underground limestone cave. On it, mark and name:
 - A Stalactite. (1mk)
 - A Stalagmite. (1mk)
 - A Limestone pillar. (1mk)
 - Underground river. (1mk)
 (iii) Describe how a stalagmite is formed. (5mks)

10. (a) (i) Define a glacier. (2mks)
 (ii) Name **three** types of glacier. (3mks)

- (b) (i) A part from a cirque, name **two** features found on upland glaciated areas. (2mks)
 (ii) Describe the process through which a cirque is formed. (5mks)

- (c) Explain **three** ways in which upland glaciated features are significant to human activities. (6mks)

(d) You are planning to carry out a field study of an upland glaciated area.

(i) Give **three** reasons why you would require a route map.

(3mks)

(ii) Identify **four** challenges you are likely to encounter during the field study.

(4mks)

ANSWERS:

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