
**KENYA NATIONAL EXAMINATION COUNCIL
REVISION MOCK EXAMS 2016
TOP NATIONAL SCHOOLS**

**KENYA HIGH SCHOOL
GEOGRAPHY
Paper 1**

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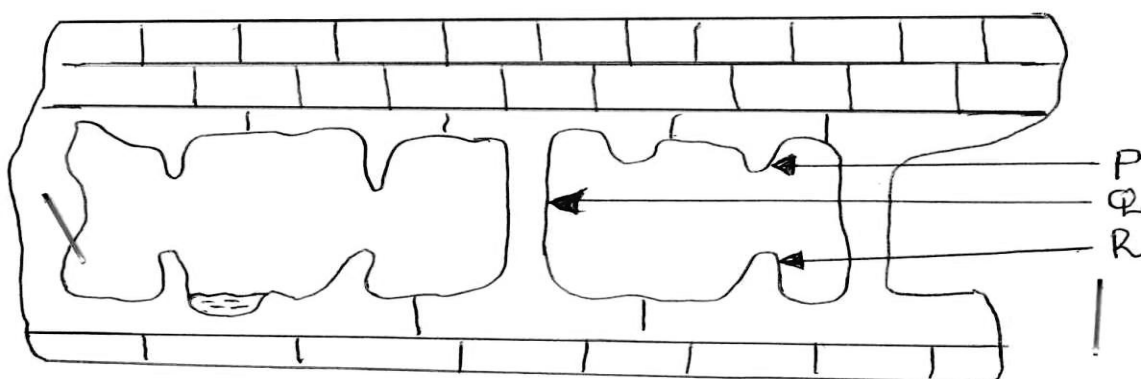
**KENYA HIGH SCHOOL TRIAL AND
PRACTICE EXAM 2016**

312/1
**GEOGRAPHY
PAPER 1**

SECTION A

Answer ALL Questions.

1. (a) What is solstice? (1mk)
(b) Give the date when summer solstice occurs. (1mk)
(c) State **three** proofs to show that the earth is spherical. (3mks)
2. (a) Name **two** factors that influence atmospheric pressure. (2mks)
(b) State **three** characteristics of inter-tropical convergence zone. (3mks)
3. The diagram below represents some features formed in Karst landscape.



- a) State the features labeled P, Q and R. (3mks)
- b) State **two** conditions for the formation of an artesian well / basin. (2mks)
4. (a) State **two** characteristics of intrusive igneous rocks. (2mks)
(b) Name **three** methods used to estimate the age of rocks. (3mks)
5. (a) State **three** ways through which rivers transport its load. (3mks)
(b) Give **two** effects of earthquakes in built-up areas. (2mks)

SECTION B

Answer question 6 and any other two questions in this section

6. Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions:-
 - (a) (i) Give the magnetic variation of the area covered by the map. (1mk)
 - (ii) Give **two** methods used to represent relief on the map provided. (2mks)
 - (iii) Calculate the area of Mount Kenya Forest in Kirinyaga District. (2mks)
 - (b) Give **three** social services provided at Tumu Tumu town. (3mks)
 - (c) Draw a cross-section along Northings 50 from Eastings 92 to 98. (3mks)
 - (i) On the cross-section mark the following features: (3mks)
 - All Weather Road
 - River Karuru
 - District boundary
 - (ii) Calculate the vertical exaggeration (V.E) (2mks)
 - (iii) Determine the inter-visibility of the cross-section. (1mk)
 - (d) Describe the drainage of the area covered by the map. (6mks)

- (e) Give the highest and lowest point of the area covered by the map. (2mks)
7. (a) (i) Apart from Rift Valley, name **two** other relief features that were formed as a result of faulting. (2mks)
- (ii) With the aid of a well labeled diagram, describe how a Rift Valley is formed by tensional forces. (8mks)
- a) Explain **four** effects of faulting. (8mks)
- b) Students are planning to carry out a field study in an area affected by faulting.
1. State **four** reasons why it is important for the students to have a pre-visit of the area. (4mks)
 2. 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 the difference between weathering and mass wasting? (2mks)
- (ii) Apart from plants, give **three** other factors that influence the rate of weathering. (3mks)
- (iii) Explain **two** ways in which plants cause weathering. (4mks)
- (b) (i) List **two** types of mass wasting other than soil creep. (2mks)
- (ii) Explain **three** factors that cause soil creep. (6mks)
- (c) Explain **four** effects of mass wasting on the environment. (8mks)
9. (a) What is glaciations? (2mks)
- (b) State the **two** conditions that favour formation of a glacier. (2mks)
- (c) (i) Name **three** processes through which ice moves. (3mks)
- (ii) Explain **three** processes through which glacier erodes the surface. (6mks)
- (d) Describe the formation of the following features:
- (i) Roche Moutonnée (4mks)
 - (ii) Rock basin (4mks)
- (e) Explain **two** negative effects of glaciations on the physical environment. (4mks)
10. (a) What is soil catena? (2mks)
- (b) Explain the following leaching processes:
- (i) Laterisation. (3mks)
 - (ii) Podzolisation. (3mks)
- (c) (i) State **three** ways in which humus improves the quality of soil. (3mks)
- (ii) Name **three** types of soil according to structure. (3mks)
- (d) Explain how the following factors cause loss of soil fertility:
- (i) Change in soil pH. (2mks)
 - (ii) Irrigation in arid and semi arid regions. (2mks)
 - (iii) Destruction of soil structure. (2mks)
- (e) You have been asked to carry out a field study in causes of soil erosion in a region near your school.
1. Mention **two** methods you would use to collect data during the study. (2mks)
 2. Mention **two** activities you would undertake during the field study. (2mks)
 3. Mention **one** follow up activity you would carry out after the field study. (1mk).