

NAME: ADM. NO:

SIGNATURE: DATE :

312/1
GEOGRAPHY
PAPER 1
JULY / AUGUST 2011
TIME: 2 ¾ HOURS

NANDI EAST, NANDI SOUTH AND TINDERET DISTRICTS
JOINT EVALUATION TEST 2011
KENYA CERTIFICATE OF SECONDARY EDUCATION (KCSE)

INSTRUCTIONS TO CANDIDATES:

- (a) *Write your Name and Index number in the spaces provided.*
- (b) *This paper consists of two sections A and B.*
- (c) *Answer ALL questions in Section A and in section B answer question 6 (compulsory) and any other two questions.*

SECTION A: Answer all questions

1. (a) Name **two** types of faults. (2mks)
(b) State **three** negative effects of faulting in Kenya. (3mks)
2. (a) Differentiate between hydration and hydrolysis in chemical weathering. (2mks)
(b) State **three** types of weathering processes that occur in arid and semi arid areas. (3mks)
3. (a) What is an air mass? (2mks)
(b) What are **two** conditions that favour the formation of an air mass? (2mks)
(c) What is a front? (1mk)
4. (a) Name **three** types of deserts depending on the nature of their surface. (3mks)
(b) List **two** ways in which wind transport material in desert. (23mks)
5. (a) Give **three** classes of organically formed sedimentary rocks. (3mks)
(b) Give the rock that result from metamorphism of: (2mks)
 - (i) Granite
 - (ii) Sandstone

SECTION B

Answer question 6 and any other two questions in this section

6. Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions:
 - (a) (i) What type of map is Homa Bay Sheet? (1mk)
(ii) Which province is covered by the map? (1mk)
(iii) Give the height of Got Nyamjini Hill at grid square 4640. (1mk)
 - (b) (i) State the grid reference of Nyamila school. (1mk)
(ii) What is the direction of lake Victoria from Olambwe School? (1mk)
(iii) What is the magnetic variation of the area covered by the map? (1mk)
 - (c) (i) Draw a sketch section between grid reference 560340 and 610370. On your section indicate:
 - Forest
 - Boundary
 - All weather road-loose surface.NB: Use scale of 1cm to represent 200ft. (7mks)
(ii) Describe the relief of the area shown. (4mks)

(d) (i) What is the approximate position of Magoti School using latitude and longitudes.

(2mks)

(ii) Identify any **three** types of vegetation shown in the area covered by the map. (3mks)

(e) Citing evidence from the map, identify three social services offered at Homa Bay Township. (3mks)

7. (a) On the outline map of Africa, name the features marked X, Y and Z. (3mks)



(b) (i) Name **four** types of folds. (4mks)

(ii) With the aid of labeled diagrams describe the formation of Fold Mountains. (10mks)

(c) Explain **four** ways in which Fold Mountains influence human activities. (8mks)

8. (a) (i) Differentiate between weathering and mass wasting. (2mks)

(ii) State **three** factors that influence weathering. (3mks)

(b) (i) State two types of rapid mass wasting. (2mks)

(ii) Explain **three** ways that influence the occurrence of a soil creep. (6mks)

(c) Explain **four** effects of mass wasting. (8mks)

9. (a) Define the following terms:
- (i) Vulcanicity (2mks)
 - (ii) Magma (2mks)
- (b) With the aid of a well labeled diagram, describe the following intensive volcanic features:
- (i) Dyke (4mks)
 - (ii) Lopolith (4mks)
 - (iii) Batholith (4mks)
- (c) State **three** destructive effects of volcanicity. (3mks)
- (d) A Secondary School in Nandi East district went out for a field work on volcanicity:
- (i) List **three** methods of data collection they may have employed. (3mks)
 - (ii) Why was it important for them to undertake a reconnaissance? (3mks)
10. (a) Define the terms:
- (i) Underground water (1mk)
 - (ii) Water table (1mk)
- (b) Identify the different forms in which underground water occurs on the earth's surface. (3mks)
- (c) Explain how the following factors influence the existence of ground water:
- (i) Vegetation (2mks)
 - (ii) Slope (2mks)
- (d) (i) Explain **three** sources of underground water. (6mks)
- (ii) What is the importance of underground water to man? (3mks)
- (e) Students of Maranda Secondary School went for a field work in a limestone area.
- (i) Identify three underground features they may have observed in the region. (3mks)
 - (ii) What follow up activities did they engage themselves in? (3mks)