

312/1

GEOGRAPHY

Paper 1

Time: 2 ¼ hours.

ALLIANCE HIGH SCHOOL

TRIAL EXAMINATION.

Kenya Certificate of Secondary Education.

JULY 2015

Geography paper 1.

INSTRUCTIONS TO CANDIDATES:

- This paper consists of two sections, A and B.
- Answer all the questions in section A.
- Answer **question 6** and any other two questions from section B.
- All answers **MUST** be written on separate answer sheets.

Section A	
6	
7	
8	
9	
10	
TOTAL.	%

SECTION A (25 MARKS)

1. a) What is an isohyet? (2mks)
b) Give two elements of the weather measured from a Stevenson's screen. (2mks)
2. a) What is natural vegetation? (2 mks)
b) State three characteristics of the Mediterranean type of vegetation. (3 mks)
3. (a) Name three types of coral reefs. (3mks)
b) Give two benefits of coral reefs in the areas they have developed. (2mks)
4. (a) State two sources of lake water (2mks)
b) Give the types of lakes formed due to the following processes: (3mks)
 - (i) Wave deposition.
 - (ii) Wind erosion.
 - (iii) Vulcanicity.
5. (a) Explain how climate influences weathering. (3mks)
b) Describe hydration as a chemical weathering process. (3mks)

SECTION B.

Answer question 6 and any other TWO questions.

6. Use the Migwani map provided to answer the questions that follow.
 - a) (i) What is the vertical interval of the area covered by the map? (1mk)
(ii) Convert the map scale into a statement scale. (2mks)
(iii) Identify the province and district where Migwani is located. (2mks)
(iv) Using the marginal information, give the magnetic variation of the area when the map extract was drawn. (2mks)
 - b) (i) Measure the distance of the pipeline from the point where it crosses Ikoo river to the southern edge of the map. Give your answer in km. (2mks)
(ii) Calculate the area enclosed by river Vinda, south of Northing 67 and east of main track to usiani school. Give your answer in km². (2mks)
 - c) (i) Using a scale of 1cm to represent 50m, draw a cross section along Northing 72 from grid reference 050720 to the eastern edge of the map. (1mk)
(ii) On the cross section, mark and name:
 - A dry weather road.
 - Mui River.

- A track. (3mks)
 - (iii) Determine whether the two points are intervisible. (1mk)
 - d) Describe the relief of the area drained by river Ikoo. (5mks)
 - e) Explain **two** reasons why the settlement of the area covered by the map favours provision of services. (4mks)
7. (a) Name three sources of underground water. (3mks)
- (b) Explain how the following factors influence the existence of underground water:
- (i) Slope. (2mks)
 - (ii) Vegetation. (2mks)
 - (iii) Nature of the rocks. (2mks)
- (c) With the aid of a well labeled diagram, describe the formation of an artesian well. (6mks)
- (d) Students from Kwale high school carried out a field study on a coastal limestone region.
- (i) List down **four** features associated with carbonation below the surface that they may have identified during the study. (4mks)
 - (ii) Give **three** challenges they may have encountered during the study. (3mks)
 - (iii) Give **three** uses of the region that the students may have identified during the study. (3mks)
8. (a) (i) Differentiate faulting and folding (2mks)
- (ii) State **three** causes of earth movement (3mks)
- (b) Describe the plate tectonic theory (8mks)
- (c) Name **three** features associated with faulting in Kenya (3mks)
- (d) (i) Draw a well labeled structure of a fold (4mks)
- (ii) State **five** significance of folding to human activities. (5mks)
9. a) (i) Define rock metamorphism. (2mks)
- (ii) Describe **three** ways in which rock metamorphism occurs. (6mks)
- b) Describe how intrusive igneous rocks are formed. (3mks)
- c) (i) Give **three** examples of chemically-formed sedimentary rocks. (3mks)
- (ii) Outline **four** ways in which rocks influence the physical environment. (4mks)

d) Students of a school in Kitale carried out a field study on rocks in the area near their school.

(i) Give **three** reasons why they prepared a route map. (3mks)

(ii) Give **two** advantages they considered before selecting interviewing as a method of data collection. (2mks)

(iii) State **two** advices they could have given the local people after the field study. (2mks)

10. (a) (i) What is a river regime? (2mks)

(ii) Draw a well - labeled diagram to represent a marine delta. (5mks)

(b) (i) Differentiate between a river tributary and a distributary. (2mks)

(ii) State **four** factors which influence river deposition. (4mks)

(iii) Describe **three** ways by which a river transport its load. (6mks)

(c) **Some students carried out a field study on river erosion in the mature stage of a river.**

(i) Identify two features that they identified during the study. (2mks)

(ii) In which four ways did they prepare the information they collected for presentation? (4mks)

This is the last printed page.