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

MARANDA HIGH SCHOOL
GEOGRAPHY
Paper 1

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MARANDA SCHOOL KSCE TRIAL AND PRACTICE EXAM 2016

312/1

GEOGRAPHY

PAPER 1

SECTION A

Answer all questions in this section

1. (a) Define the solar system (1mk)
(b) Give **four** proofs that show that the earth is spherical (4mks)
2. (a) What do you understand by
(i) Micro-climate (2mks)
(ii) Green house effect (2mks)
(b) Name **one** instrument found in a Stevenson screen (1mk)
3. (a) State **two** cause of coastal submergence (2mks)
(b) Name **three** conditions necessary for the growth of coral polyps (3mks)

4. (a) Identify the types of faults shown by the diagrams below (2mks)

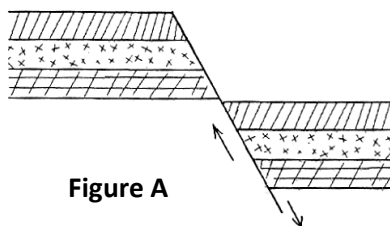


Figure A

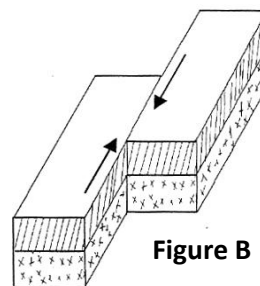


Figure B

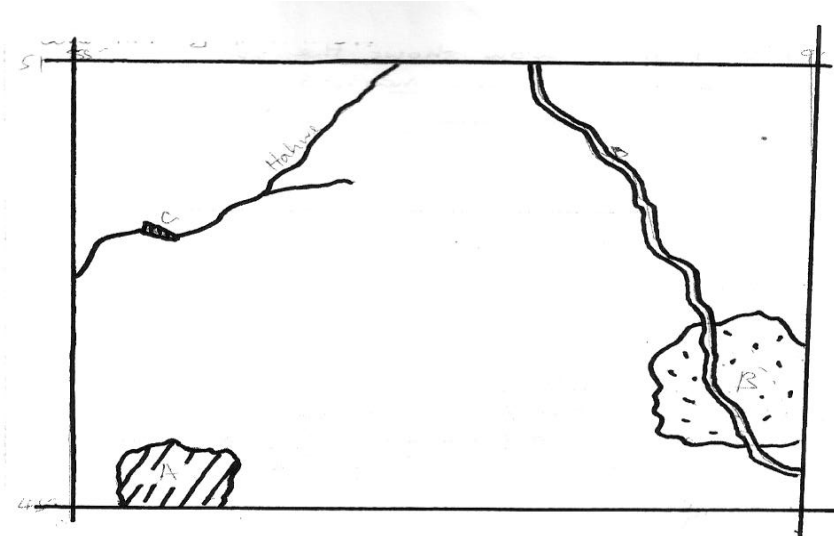
- (b) State **three** negative effects of faulting (3mks)
5. (a) Name an **three** glacial erosion features found in the highlands (3mks)
(b) State **two** factors that influence the rate of glacial erosion (2mks)

SECTION B(75marks)

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

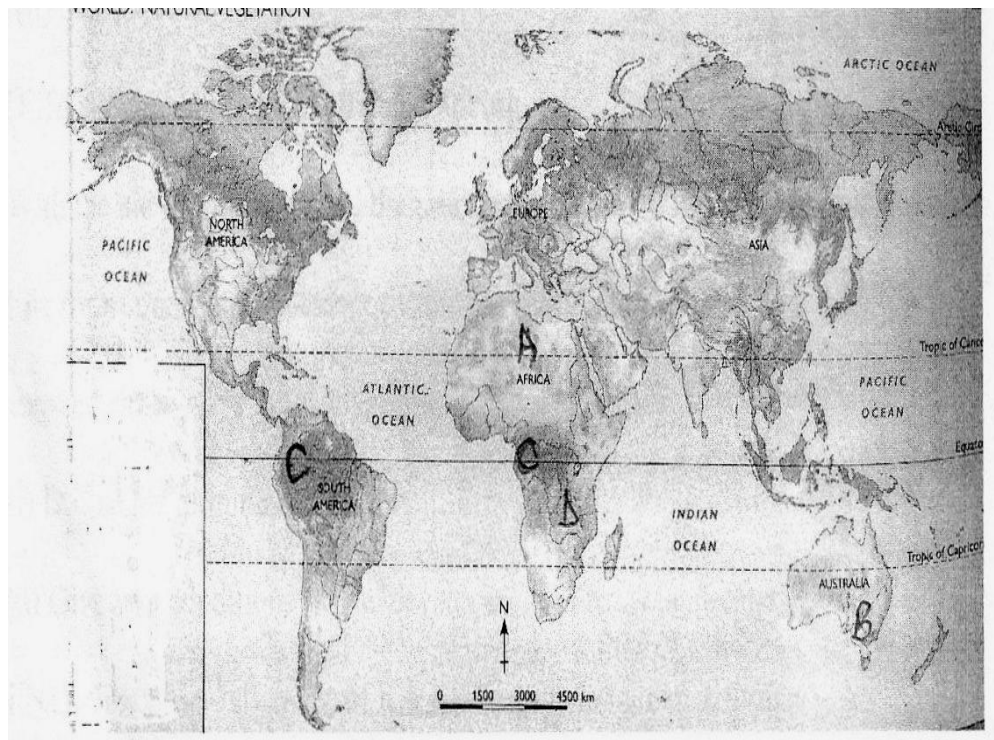
6. Study the map of Karatina (1:50000) sheet 121/3 provided and answer the following questions.
 - (a) (i) Convert the RF of the map into a statement scale (1mk)
 - (ii) Calculate the bearing of the church at Hiriga grid square 8457 from the cattle at Kaburuini grid square 8756 (2mks)
 - (iii) Calculate the area of Karatina town. Give your answer in square kilometers (2mks)

- (iv) Name the **two** districts covered by the map (2mks)
- (b) The rectangle below represents that area in the map extract bounded by easting 85 and 92 and northing 45 and 51



- (i) Identify the features marked A,B,C and D (4mks)
- (c) Citing evidence from the map, give three economic activities carried out in the area covered by the map
- (d) Apart from forests, name three types of natural vegetation found to the East of Easting 94 (3mks)
- (e) Describe the drainage of the area covered by the map (5mks)

7. (a) (i) What is climate change? (1mk)
- (ii) State **four** consequences of climate change (4mks)
- (b) Name **two** physical factors influencing vegetation distribution in Kenya (2mks)
- (c) Study the sketch map below showing some vegetation zones of world. Use it to answer the questions (c)(i)(ii) and (iii)



- (i) Name the vegetation zones marked A,B,C and D (4mks)
- (ii) Explain **four** ways in which vegetation marked A have adapted to their environment (8mks)
8. (a) (i) What is a river divide? (1mk)
- (ii) Describe **three** ways by which a river transports its load (6mks)
- (b) Give the characteristics of a river in its old stage (7mks)
- (c) Describe the following drainage patterns/systems
- (i) Superimposed (3mks)
- (ii) Centripetal (2mks)
- (d) You have planned to carry out a study of a river in its youthful stage
- (i) Give any **two** preparations for your study (2mks)
- (ii) Name **two** features you are likely to study (2mks)
- (iii) State **two** problems you are likely to experience during their study (2mks)
9. (a)(i) Apart from the thermal metamorphism, name two other types of metamorphism (2mks)
- (ii) Describe how the following types of rocks form
- (a) Calcereous rocks (3mks)
- (b) Carbonaceous rocks (3mks)
- (iii) Name **three** examples of rocks that are dominant at the coast of Kenya (3mks)
- (b) Explain how sedimentary rocks are formed through the following processes;
- (i) Mechanical process (4mks)
- (ii) Chemical process (4mks)
- © Ingolomosio Secondary school intends to carry out a field study on rocks in Mt. Longonot
- (i) State **three** activities they would be involve in (3mks)
- (ii) State **three** objectives of your study (2mks)
10. (a) Differentiate between a well and a spring (2mks)
- (b) With the aid of a well labeled diagram, show the three zones of ground water (6mks)
- (c) List **four** conditions necessary for the formation of an Artesia well (4mks)
- (d) Explain **three** ways in which ground water is of significance to human activities (6mks)
- (e) (i) Define the term Karst scenery (2mks)
- (ii) Give **two** conditions for the development of Karst landscape (2mks)
- (iii) Outline the significance of Karst landscape to human activities (3mks)