

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST 2014
TIME: 2 ³/₄ HOURS

NYAMIRA SUB - COUNTY JOINT EVALUATION EXAM

Kenya Certificate of Secondary Education (K.C.S.E.)

312/1
Geography
Paper 1
2 ³/₄ Hours

INSTRUCTIONS TO CANDIDATES

- This paper has two sections **A** and **B**.
- Answer all questions in section **A**.
- Answer question 6 and any other two questions from section **B**.
- Candidates should answer the questions in English.

This paper consists of 4 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

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)

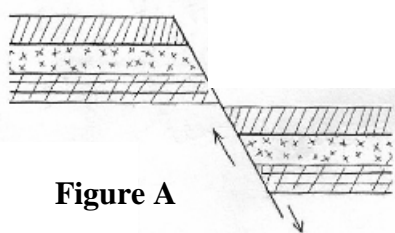


Figure A

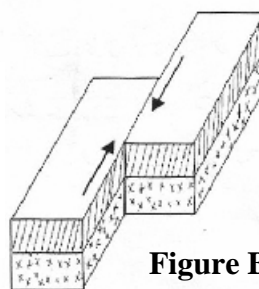


Figure B

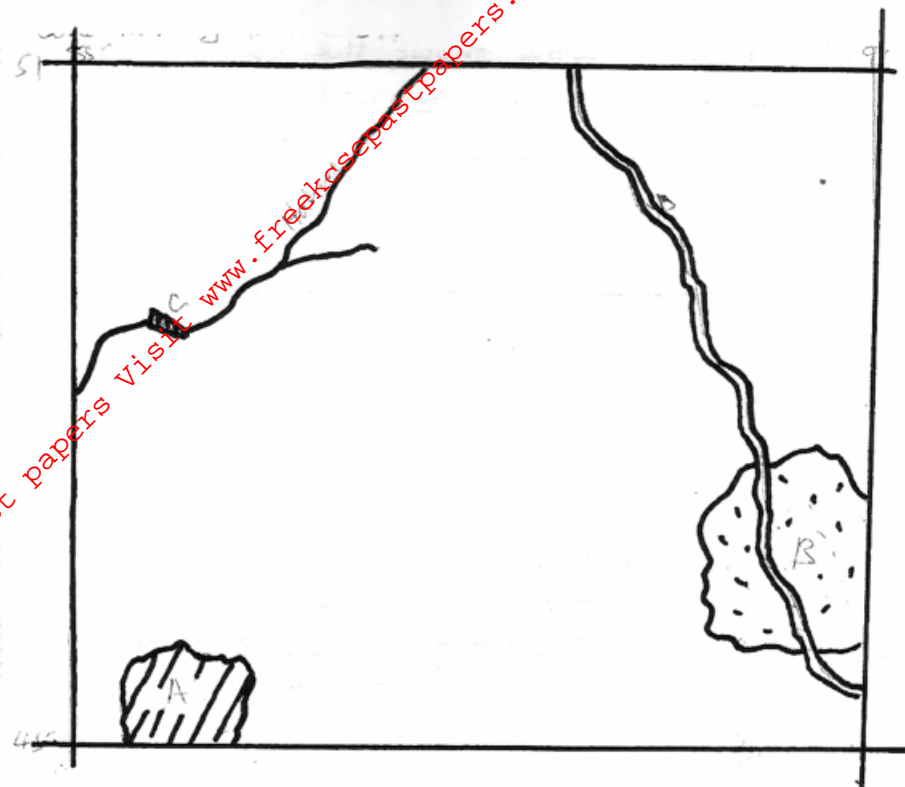
- (b) State **three** negative effects of faulting (3mks)
5. (a) Name an **three** glacial erosion features found in the highlands (3mks)
(b) State **two** factors that influence the rate of glacial erosion (2mks)

SECTION B(75marks)

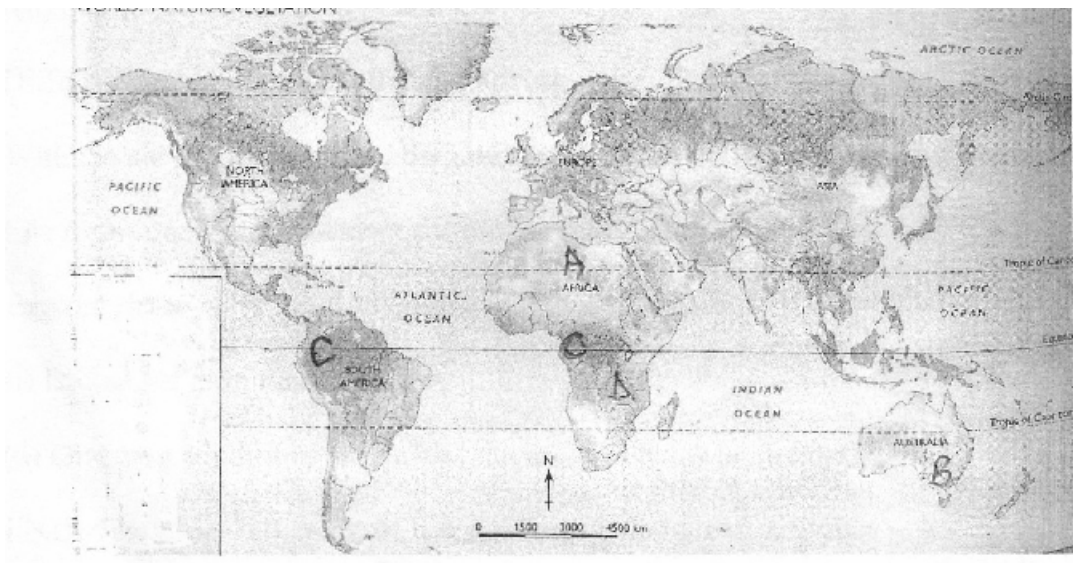
Answer question 6 and any other two questions from this section.

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 dip 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

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- (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)