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GEOGRAPHY

PAPER ONE

FORM 4

MARCH / APRIL 2013

TIME: 2³/₄ HOURS

ELDORET EAST INTER - SCHOOLS EXAMINATION - 2013
Kenya Certificate of Secondary Education (KCSE)
FORM FOUR

INSTRUCTIONS TO CANDIDATES

- * This paper consists of **two** sections **A** and **B**.
- * Answer **ALL** the questions in section **A**. In section **B** answer question **6** and any other **two** questions.

SECTION A

Answer all the questions in this section.

1.
 - i) Differentiate between revolution and rotation. (2marks)
 - ii) State **three** effects of revolution of the earth. (3marks)

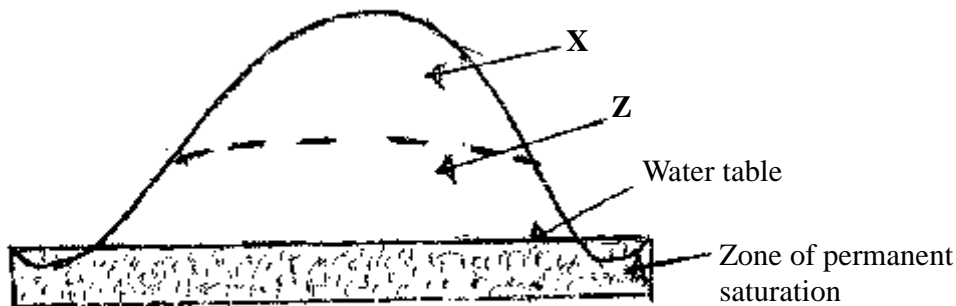
2.
 - a)
 - i) What is an isohyet (1mark)
 - ii) Name the instrument used to collect data needed in question a (i) above for the isohyets. (1mark)

 - b)
 - i) Define the term weather forecasting. (1mark)
 - ii) State **two** importance of weather forecasting. (...marks)

3.
 - a) Differentiate between natural vegetation and derived vegetation. (2marks)
 - b) Give **three** uses of Savanna vegetation. (3marks)

4.
 - a) Identify **two** reasons why the action of wind is more effective in hot deserts. (2marks)

 - b)
 - i) State **one** condition necessary for the formation of Karst scenery. (1mark)
 - ii) The diagram below represents zones of saturation below the surface.



Name the zones marked X and Z. (2marks)

5.
 - a) List **two** factors influencing soil formation. (2marks)
 - b)
 - i) Distinguish between soil porosity and soil permeability. (2marks)
 - ii) Give **one** factor that contribute to soil degeneration. (1mark)

SECTION B

Answer question 6 and any other two questions.

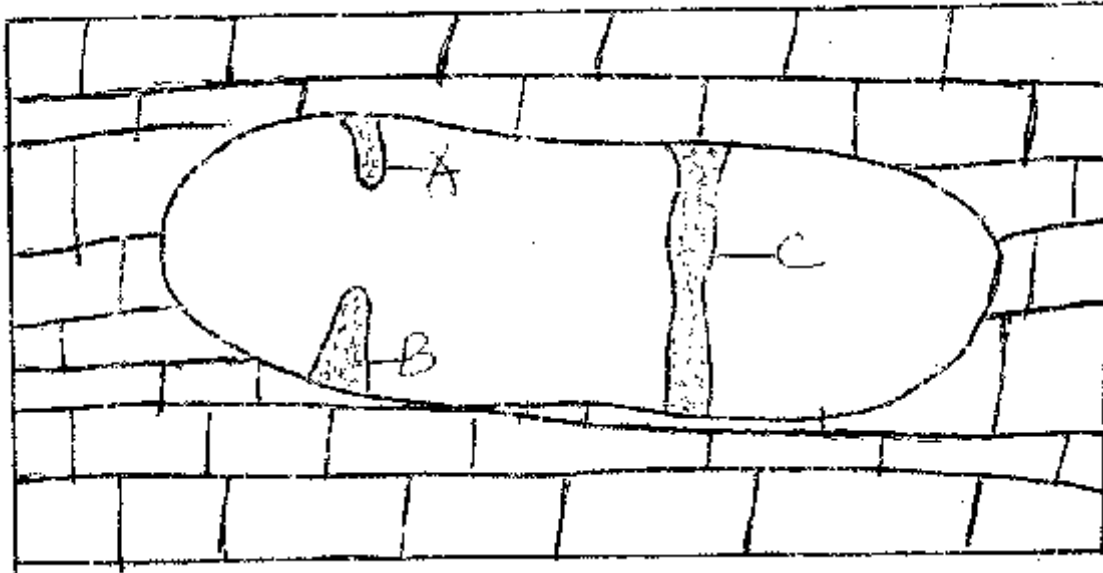
6. Study the map of Nkubu 1:50000 sheet 122/1 provided and answer the questions that follow.
 - a)
 - i) Measure distance along the dry weather road from junction at grid 427976 to the road junction at 495961. (2marks)
 - ii) Name **two** man – made features in grid square 5682. (2marks)

 - b)
 - i) Calculate the bearing of the trigonometrical station in the grid square 5686 from the trigonometrical station in grid square 6087. (2marks)
 - ii) Calculate the area of the forest to the South of Northing 86 and North of Northing 82. (2marks)

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- c) i) Draw a cross – section along Northing 92 from grid reference 520920 to 600920 using a scale of 1cm represents 50metres. (4marks)
 On the section mark and name:
 - All weather road loose surface.
 - Dry weather road
 - Main river
 - Seasonal swamp.
- ii) Calculate the vertical exaggeration of the cross – section you have drawn in c (i) above. (2marks)
- d) Describe how the following have influenced settlement in the area covered by the map.
 i) Relief (2marks)
 ii) Drainage (3marks)
- e) If the students from the school Nkando were to carry out a field study on mining in this area covered by the map. Giving evidence identify the type of mining they would observe. (2marks)
- 7.a) i) Differentiae between glacial till and fluvioglacial deposits. (2marks)
 ii) Name three features resulting from glacial erosion in lowlands. (3marks)
- b) Explain how the following factors influence glacial deposition.
 i) Weight of the glacier.
 ii) Climatic changes
 iii) Slope of the land (6marks)
- c) Describe how the following features are formed.
 i) Outwash plain
 ii) Moraine – dammed lake (4marks)
- d) Explain **five** benefits of glaciated landscapes to the human environment. (10marks)
8. a) Name **two** types of submerged coasts. (2marks)
- b) Explain how the following factors determine the effectiveness of wave erosion along a coast.
 i) Nature of material transported by waves. (2marks)
 ii) Nature of the coast rock. (2marks)
 iii) With the aid of labeled diagrams describe the process through which a stack is formed. (6marks)
- c) State **four** conditions that favour the growth of coral. (4marks)
- d) i) Explain **three** ways in which coral contributes to the economic development of Kenya. (6marks)
 ii) Students from a school went for a field study at the coast of Kenya. What methods do you think they used to record their data. (3marks)

- 9.a) i) What is a lake. (2marks)
- ii) Name **three** ways through which lakes are formed. (3marks)
- iii) List **three** sources of lake water. (3marks)
- b) By use of a diagram describe how lake Victoria was formed. (5mark)
- c) Briefly explain **two** reasons why some lakes in the Rift valley have fresh water. (4marks)
- d) State **three** economic significances of lakes. (3marks)
- e) Students from your school intends to carry out a field study on lakes,
- i) State **one** objectives for their study. (1mark)
- ii) Identify **two** methods they will use to record the data collected. (2marks)
- iii) Which human activity might they have found to be affecting the lakes. (2marks)
- 10.a) i) What is the definition of ground water. (2marks)
- ii) Name **two** of the sources of ground water. (2marks)

- b) The diagram below shows the underground features in karst landscape. Use it to answer question (i)



- i) Name the features marked A, B and C. (3marks)
- ii) Describe how feature B is formed. (3marks)
- c) Explain **four** ways in which groundwater is of significance to human activities. (8marks)
- d) Students went for a field study in a limestone area.
- i) What problems are they likely to face while in the field. (3marks)
- ii) State **two** of the surface features they identified. (2marks)
- iii) The **two** features you have stated in d (ii) above explain how they were identified. (2marks)