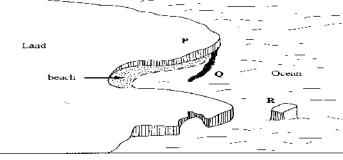
eekcsepastpagers.com (iii) The hinterland (2 mks)Port facilities (iv) (2 mks)Explain two ways in which urbanization negatively affects the surrounding (d) agricultural areas (4 mks)Past K.C.S.E YEAR 2010 PAPER 1 SECTION A Answer ALL the que Give **three** components of the solar system. (3 marks) Answer ALL the questions in this section. (a) Identify **two** types of high level clouds. (2 marks) (b) Draw a well labelled diagram of a hydrological cycle. (5 marks) (a) Give **three** causes of earthquakes. (3 marks) (b) Name two major earthquake zones of the world. (2 marks) (a) What is a rock? (2 mark)(b) Give three characteristics of sedimentary rocks. (3 marks) (a) The diagram below shows some coastal features



Name the features marked P, Q and R. (3 marks)

(b) State **two** conditions necessary for the formation of a beach.

(2 marks)

FOTHOTO

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4

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SECTION B

Answer question 6 and any other **TWO** questions from this section.

6. Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions.

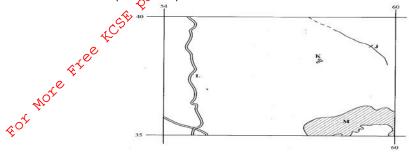
(a) A pipeline is to be laid from Lake Victoria along the line marked **X-Y**.

(i) What is the length of the piping to be used?

98

(Give your answer to the nearest 100 metres).

- (2 marks)
- (ii) Calculate the bearing of point Y from point X
- (2 marks)
- (iii) Calculate the area of the part of Lake Victoria shown on the map excluding the marshy
 - sections. (Giveyour answer in square kilometers).
- (2 marks)
- (b) The rectangle below represents the area in the map extract bounded by Eastings 54 and 60 and
 - Northings 35 and 40. Identify and name the features marked J, K, L and M. (4 marks)



(c) (i) Explain three factors which have influenced the distribution of settlements in the area covered

by the map. marks)

(6

(ii) Citing evidence from the map, give **two** agricultural activities carried out in the area covered (4

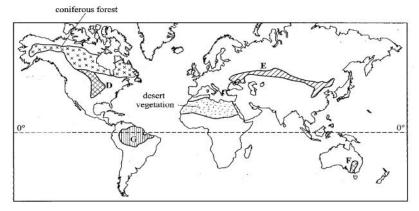
by the map.

marks)

(d) Describe the drainage of the area covered by the map.

marks)

7. The map below shows some vegetation regions of the world. Use it to answer questions (a) and (b). coniferous forest



(i) Name the temperate grasslands marked D, E and F. (a) (3 marks)

(5

15tpapers.com (ii) Describe the characteristics of the natural vegetation found in the shaded area marked G. (6 marks)

(b) Explain how climate has influenced the existence of the following types of vegetation shown on the map. (4

- (i) Desert vegetation;
- marks)
- (ii) Coniferous forest.
 - (4 marks)

(c) You are required to carry out a field study of the natural vegetation within your local environment.

(i) Apart from identifying the different types of plants, state **three** other activities you would carry out during the field study.

(3 marks)

(fi) How would you identify the different types of plants?

(3 marks)

(iii) State **two** ways in which the information collected during the field study would be useful to the local community.

(2 marks)

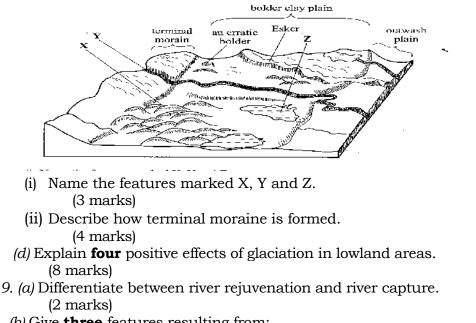
FOT NOTE 8. (a) Describe plucking as a process in glacial erosion.

(4 marks)

(b) Explain **three** conditions that lead to glacial deposition.

(6 marks)

(c) The diagram below shows features resulting from glacial deposition on a lowland area. Direction of movement of ice



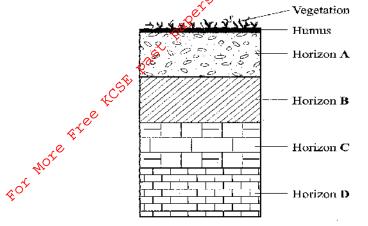
(b) Give **three** features resulting from; (i) river rejuvenation; (3 marks) (ii) river capture. (3 marks) (c) Explain the **four** ways through which a river transports its load. (8 marks)

(d) You are planning to carry out a field study on the lower course of a river.

(i) Give **three** reasons why you would require a route map. marks)

(ii) State three characteristics of a river at the old stage that you are likely to observe during the field study.(3 marks)

- (iii) Give **three** follow-up activities you would be involved in after the field study. (3 marks)
- 10 The diagram below represents a well developed soil profile. Use it to answer question (a).



- (a) (i) Describe the characteristics of horizon B.
 - (3 marks)
 - (ii) Apart from humus, name **three** other components of soil.
 - (3 marks)
 - (iii) State **three** ways in which humus contributes to the quality of soil. (3 marks)
- (b) (i) Differentiate between soil structure and soil texture.

(2 marks)

(ii) Explain how the following factors influence the formation of soil;
 topography;
marks)

- time.
- marks)

(c) Explain how the following farming practices may lead to loss of soil fertility:

- (i) overgrazing;
- (2 marks)
- (ii) frequent ploughing;
 - (2 marks)
- (iii) continuous irrigation.
- marks)

(2

(6

(2

(3