312/2
GEOGRAPHY
Paper 2
Oct./Nov. 2013
2 3/4 hours

THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
GEOGRAPHY
Paper 2
2 3/4 hours

Instructions to candidates
(a) This paper has two sections: A and B.
(b) Answer all the questions in section A.
(c) Answer question 6 and any other two questions from section B.
(d) All answers must be written in the answer booklet provided.
(e) This paper consists of 6 printed pages.
(f) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
(g) Candidates should answer the questions in English.
SECTION A

Answer all the questions in this section.

1. (a) Name the method of irrigation used in the Perkerra irrigation scheme. (1 mark)
   (b) State three factors that influenced the location of the Perkerra irrigation scheme. (3 marks)

2. State four effects of human encroachment into wildlife habitats. (4 marks)

3. (a) Name two countries to which Kenya exports petroleum products. (2 marks)
   (b) State four factors that influence external trade in Kenya. (4 marks)

4. (a) State two factors that lead to the development of nucleated settlement patterns. (2 marks)
   (b) Identify two differences in the functions of Nairobi and New York. (4 marks)

5. Identify five ways that are used to control floods in Kenya. (5 marks)
SECTION B

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

6 The table below shows the approximate population size of four districts in Nairobi in the year 2009.

Use it to answer question (a)

<table>
<thead>
<tr>
<th>District</th>
<th>Population size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nairobi West</td>
<td>685,000</td>
</tr>
<tr>
<td>Nairobi East</td>
<td>1,144,000</td>
</tr>
<tr>
<td>Nairobi North</td>
<td>1,062,000</td>
</tr>
<tr>
<td>Westlands</td>
<td>247,000</td>
</tr>
<tr>
<td>Total</td>
<td>3,138,000</td>
</tr>
</tbody>
</table>


(a) 

(i) Apart from pie charts, name two other statistical methods that can be used to represent the data in the table. (2 marks)

(ii) Using a radius of 5 cm, draw a pie chart to represent the data in the table above. Show your calculations. (9 marks)

(iii) Calculate the population growth rate of Nairobi over the 10 year period if the populations was approximately 2,143,000 in 1999. (2 marks)

(b) Explain two factors that may have led to the large population increase in Nairobi between 1999 and 2009. (4 marks)

(c) Explain four positive effects of low population growth in a country. (8 marks)
The map below shows the location of some minerals in East Africa.
5

(a) Name the minerals mined in the areas marked J, K and L. (3 marks)

(b) Explain how the following factors influence the exploitation of minerals:

   (i) mode of occurrence of minerals; (4 marks)

   (ii) transport; (4 marks)

   (iii) level of technology. (4 marks)

(c) Describe the opencast method of mining. (4 marks)

(d) Explain three benefits of petroleum mining to the economies of Middle East Countries. (6 marks)

8

(a) (i) What is agriculture? (2 marks)

   (ii) Identify four characteristics of Plantation farming in Kenya. (4 marks)

(b) Give four physical factors that influence the growing of tea in Kenya. (4 marks)

(c) Explain four problems facing small scale tea farming in Kenya. (8 marks)

(d) You plan to carry out a field study in a tea farm.

   (i) Give four reasons why you need a route map for the study. (4 marks)

   (ii) What information are you likely to gather about marketing of processed tea during the study? (3 marks)

9

(a) Identify three sources of renewable energy. (3 marks)

(b) (i) Name three main Hydro Electric Power Stations along the River Tana. (3 marks)

   (ii) Apart from providing electric power, state four other benefits of the dams along the River Tana. (4 marks)

   (iii) Identify two problems that affect the production of power from the stations along River Tana. (2 marks)
(c) Explain four measures the Government of Kenya has taken to conserve energy. (8 marks)

(d) Some students carried out a field study on sources of energy by sampling the households around their school.

(i) Identify two sampling techniques the students may have used during the study. (2 marks)

(ii) Give three advantages of sampling the households for the study. (3 marks)

10

(a) Differentiate manufacturing industries from tertiary industries. (2 marks)

(b) Explain why the Government of Kenya encourages the setting up of industries in rural areas. (8 marks)

(c) Explain four factors that have contributed to the development of electronics industry in Japan. (8 marks)

(d) You intend to carry out a field study in a nearby post office.

(i) Identify two characteristics of a good hypothesis for the study. (2 marks)

(ii) State three advantages of using the interview method to collect data during the study. (3 marks)

(iii) Give two challenges facing postal services that you are likely to find out during the study. (2 marks)