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 7 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: (25 marks)

Answer all the questions in this section.

1 (a) Define the term environment. (2 marks)

(b) Give three effects of air pollution in major urban centres. (3 marks)

2 (a) Identify three factors that influence the occurrence of minerals. (3 marks)

(b) Name the area where the following minerals are mined in Kenya:
   (i) diatomite; (1 mark)
   (ii) salt. (1 mark)

3 (a) Distinguish between forest and forestry. (2 marks)

(b) Identify three activities that may be undertaken in your school to conserve trees. (3 marks)

4 Give four challenges facing Nomadic pastoralism in Kenya. (4 marks)
5 Use the map of Kenya below to answer question (a).

(a) Name the hydro-electric power projects marked E, F and G. (3 marks)

(b) State three advantages of geothermal power as a source of energy. (3 marks)
SECTION B: (75 marks)

*Answer question 6 and any other two questions in this section.*

6 The table below shows the value of some of Kenya's mineral exports from 2008 to 2011. Use it to answer questions (a) and (b).

<table>
<thead>
<tr>
<th>Mineral</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soda Ash</td>
<td>13200</td>
<td>8300</td>
<td>7300</td>
<td>12400</td>
</tr>
<tr>
<td>Petroleum Products</td>
<td>4200</td>
<td>4500</td>
<td>4700</td>
<td>6100</td>
</tr>
<tr>
<td>Cement</td>
<td>7300</td>
<td>7800</td>
<td>7400</td>
<td>8900</td>
</tr>
</tbody>
</table>

Source: Central Bureau of Statistics

(a) (i) Using a scale of 1 cm to represent 1 000 million Kenya Shillings, draw a comparative bar graph to represent the data shown. (8 marks)

(ii) State three advantages of using comparative bar graphs to represent statistical data. (3 marks)

(b) Calculate the percentage increase in value of exports between the years 2010 and 2011. (6 marks)

(c) Explain the significance of trade to the economy of Kenya. (8 marks)

7 (a) State three physical conditions which favour large scale sugarcane growing in Kenya. (3 marks)

(b) (i) Describe the stages involved in the processing of sugarcane at the factory. (6 marks)

(ii) Give three by-products obtained from sugarcane. (3 marks)

(c) Explain three ways in which the Kenya Government is promoting the sugar manufacturing industry. (6 marks)

(d) Your class visited a sugarcane plantation for a field study on land preparation and planting.

(i) Outline four activities that you are likely to identify. (4 marks)

(ii) Give three methods you would use to record data during the field study. (3 marks)

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8 (a) Differentiate between domestic and international tourism. (2 marks)

Use the map of East Africa below to answer question (b).

(b) Name:

(i) The national parks marked H, J and K. (3 marks)

(ii) The game reserve marked L. (1 mark)

(c) (i) Explain how the following factors influence tourism in Kenya.

- climate; (2 marks)
- scenery; (2 marks)
- tour companies. (2 marks)

(ii) State five effects of floods on tourism. (5 marks)

(d) Explain four ways in which the county governments in Kenya would promote sustainable tourism. (8 marks)
9 Use the map of Africa below to answer question (a)

(a) Name the trans-continental highways in Africa marked M, N and P. (3 marks)

(b) (i) State four advantages of air transport. (4 marks)

(ii) Explain four efforts that the Kenya Government has taken to improve air transport. (8 marks)

(c) (i) Identify two types of communication. (2 marks)

(ii) Explain four problems facing communication in Africa. (8 marks)
10 (a) (i) Give two main sources of population data. (2 marks)

(ii) Outline the information that can be derived from a population pyramid. (3 marks)

(b) Explain how the following factors have led to population increase in Kenya

(i) cultural beliefs; (2 marks)

(ii) migration. (2 marks)

(c) Explain four problems which result from a high population growth rate in Kenya. (8 marks)

(d) Describe four ways in which the population of Kenya differs from that of Sweden. (8 marks)