INSTRUCTIONS TO CANDIDATES:
(a) This paper has two Sections A and B.
(b) Answer all the questions in Section A.
(c) In Section B, answer question 6 and any other two questions from Section B.
(d) All answers must be written in the answer booklet provided.
**Geography Paper 1**

**SECTION A: (25 MARKS)**

Answer all questions from this section.

1. (a) What is the relationship between Geography and Physics.  
   (2 marks)
   (b) Name the three main layer at the atmosphere from the earths surface upwards.  
   (3 marks)

2. (a) Name three types of coral reefs.  
   (3 marks)
   (b) What are the benefits of coral reefs in the areas they have developed?  
   (2 marks)

3. The diagram below show the formation of some type of rainfall. 
   Use it to answer question (a) and (b).
   ![Diagram of rainfall formation](image)

   (a) (i) Name the type of rainfall shown by this diagram.  
       (1 mark)
   (ii) Name the type of cloud marked (A).  
       (1 mark)
   (b) List three weather conditions associated with the above name (a) type of rainfall.  
       (3 marks)

4. (a) (i) State the plate tectonic theory.  
       (1 mark)
   (ii) State one feature formed when:
       (i) Tectonic plates move towards each other.  
       (1 mark)
       (ii) The plates move away from each other at the boundary.  
       (1 mark)
   (b) State three effect of climate change.  
       (3 marks)

5. (a) What is a lake?  
   (2 marks)
   (b) Identify two reasons why most lakes within the Rift Valley are salty?  
   (2 marks)

**SECTION B: (75 MARKS)**

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

6. Study the map of Migwani 1:50000, (Sheet 151/1) provided and answer the following questions.  
   (a) Citing evidence from the map, name three hydrographic features.  
   (3 marks)
(b) Draw a rectangle measuring 10cm by 8cm to represent the area enclosed by Easting 90 and 00, and Northings 62 and 70. (1 mark)

**Geography Paper 1**

On the rectangle, mark and name the following features.

1. Musenyo School. (1 mark)
2. Road E742. (1 mark)
3. Kitui Hills. (1 mark)

(c) (i) Describe the relief of the area covered by the map. (4 marks)
(ii) Citing evidence from the map, state three social services offered at Mutito trading centre. (3 marks)

(d) Students of a school at Itoloni carried a field study at Gwani town.
1. Name two types of road they used to travel to Gwani. (2 marks)
2. Name one man-made feature they found on the way to Gwani. (1 mark)
3. State three functions at Gwani town they identified. (3 marks)

(e) Describe five characteristics of the long profile of river Ikoo. (5 marks)

7. (a) (i) Differentiate between rocks and minerals. (2 marks)
(ii) Give three ways in which rocks can be classified. (3 marks)

(b) (i) Name one example at each of the following types of sedimentary rocks.
   - Chlorides. (1 mark)
   - Arenaceous. (1 mark)
   - Carbonaceous. (1 mark)
(ii) Describe how sedimentary rocks are formed through physical processes. (4 marks)

(c) (i) State three changes that occur in rocks during metamorphism. (3 marks)
(ii) Give two reasons why sedimentary rocks are dominant along the Kenyan Coasts. (2 marks)

(d) Students from Buma School carried a field study on rocks in their county.
1. State three reasons why it would be necessary for them to conduct a reconnaissance to the study area. (3 marks)
2. Give two methods they used to record data. (2 marks)
3. State three importance of rocks they identified. (3 marks)

8. (a) In aid of a well labelled diagrams describe the formation of the rift valley by tension. (8 marks)

(b) The diagram below represents a feature formed by faulting.
Use it to answer the question that follow.

9. (a) (i) What is a desert? (2 marks)
   (ii) Name two types of deserts landscapes. (2 marks)

   (b) Describe how wind transport materials on the desert surface using the following processes.
       (i) Surface creep. (2 marks)
       (ii) Saltation. (2 marks)

   (c) Using well labelled diagram(s) explain how Barchan is formed. (8 marks)

   (d) You intend to carry out a field study in an arid area near your school.
       (i) State two reasons for carrying out a pre-visit. (2 marks)
       (ii) Apart from Brarchan state three depositional features they are likely to have identified. (3 marks)
       (iii) State four positive effects of deserts features to man that you are likely to identify. (4 marks)

10. (a) (i) Define term soil conservation. (2 marks)
     (ii) State two methods that assist in soil conservation. (2 marks)

     (b) Explain how the following factors influence the soil formation.
         (i) Climate. (3 marks)
(ii) Topography.  

(c) (i) Describe how laterisation occurs.  
(ii) State two ways in which humus improves the quality of soil.  
(iii) State four characteristics of desert soils.  

(d) (i) Describe how gulley erosion occurs.  
(ii) State two economic uses soils.  

*Geography Paper 1*  

4  

*Cekenas Joint Mock*
INSTRUCTIONS TO CANDIDATES:
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Geography Paper 2

SECTION A: (25 MARKS)

Answer all questions from this section.

1. (a) Define the term transhumance. (2 marks)
   (b) State three characteristics of nomadic pastoralism. (3 marks)

2. State five factors which influence nucleated settlement pattern. (5 marks)

3. (a) What is a cottage industry? (2 marks)
   (b) Give three reasons why the government of Kenya encourages the establishment of Jua Kali Industries. (3 marks)

4. (a) What is air pollution? (2 marks)
   (b) State three negative effects of uncollected garbage on the environment. (3 marks)

5. (a) Name two main reclamation projects in the Netherlands. (2 marks)
   (b) State three reasons for reclaiming swamps in Kenya. (3 marks)

SECTION B: (75 MARKS)

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

6. The table below gives the figures for the 2009 population census per county for the central region of Kenya.

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kiambu</td>
<td>1623282</td>
</tr>
<tr>
<td>Murang’á</td>
<td>942581</td>
</tr>
<tr>
<td>Nyeri</td>
<td>693558</td>
</tr>
<tr>
<td>Nyandarua</td>
<td>596268</td>
</tr>
<tr>
<td>Kirinyaga</td>
<td>528054</td>
</tr>
</tbody>
</table>

(a) (i) Besides bar graphs, name three other methods that can be used to represent the above data. (3 marks)
   (ii) Draw a simple bar graph to represent the data in the table above. Use a scale of 1cm to represent 200,000 persons. (6 marks)
   (iii) State four advantages of using bar graphs to represent statistical data. (4 marks)

(b) Calculate the population density for Kiambu County, given that its area is 2543.4 square kilometers. (2 marks)

(c) Give two reasons why census is necessary. (2 marks)

(d) Explain four reasons for the high population density in Kiambu County. (8 marks)
7. (a) (i) What is reforestation? (2 marks)
(ii) State **four** reasons why afforestation should be encouraged in Kenya. (4 marks)

(b) (i) Name **two** main exotic softwood trees grown in Kenya. (2 marks)
(ii) State **five** characteristics of softwood forests in Canada. (5 marks)

(c) Explain **three** problems which hinder the Kenya government’s effort to manage and conserve her forests. (6 marks)

(d) Compare forestry in Kenya and Canada under the following headings:

(i) Transportation of the logs. (2 marks)
(ii) Felling of trees. (2 marks)
(iii) Tree species. (2 marks)

8. (a) (i) What is sedentary farming? (2 marks)
(ii) Name **three** main types of agriculture. (3 marks)

(b) (i) Name **four** horticulture farms in Kenya. (4 marks)
(ii) State **five** reasons for growing flowers under green houses. (5 marks)

(c) Name **three** vegetable horticultural crops grown in Kenya. (3 marks)

(d) Explain **four** reasons why horticulture farming is more developed in the Netherlands than in Kenya. (8 marks)

9. (a) (i) Name **three** modes of transport in Kenya. (3 marks)
(ii) State **four** problems facing communication in Kenya. (4 marks)

(b) Explain **four** advantages of rail transport over road transport. (8 marks)

(c) Use the map of Africa below to answer the following questions.
Geography Paper 2

(i) Name the highways marked X and Y.  
(ii) Name the port marked M.  
(iii) Name the country marked S.  

(d) (i) Give two reasons why it is difficult to transport goods from Mombasa to Lagos by road.  
(ii) State four efforts that have been made to improve transport in Africa.  

10. (a) (i) Define international trade.  
(ii) Name three major imports from Europe to Kenya.  

(b) States four factors that influence external trade in Kenya.  

(c) Explain four ways through which Kenya will benefit from renewed East African Co-operation.  

(d) Explain four negative effects of international trade.