INSTRUCTIONS TO CANDIDATES

- This paper has two sections A and B.
- Answer all the questions in section A, in section B answer question 6 and any other two questions.
- All answers must be written in the answer sheets provided.

This paper consists of 4 printed pages.
Candidates should check the question paper to ascertain all the pages are printed as indicated
And no questions are missing.

**SECTION A (25 MARKS)**

*Answer all questions in this section*

1. State the effects of the following on the shape of the earth
   a) Centripetal force (1 mark)
   b) Centrifugal force (1 mark)
   c) Force of gravity (1 mark)

2. a) Name the components of the atmosphere (3 marks)
   b) What is the temperature inversion (2 marks)

3. a) Apart from water give three components of soil (3 marks)
   b) State four importance of water in the soil. (4 marks)

4. What is the hydrological cycle? (2 marks)
   b) State three benefits of the hydrological cycle. (3 marks)
   c) Name two sources of water in hydrological cycle (2 marks)

5. Name three types of coral reefs (3 marks)

**SECTION B**

*Answer Question 6 and any other two questions from this section*

6. a) Study the map of Migwani 1:50:000 (sheet 151/1) and answer the following questions
   i) What is the four figure grid reference of the trigonometrical station at Kamutotya (2 marks)
   ii) Give the bearing of the trigonometrical station in grid square 9374 from Usioni school in grid square 9568 (2 marks)
   iii) Measure the distance of the dry weather road D503 from the junction (P.O) at Yoonye to grid square 0964 (Give your answer in m) (2 marks)
   b) i) Name two natural vegetation found in the areas represents by the map (2 marks)
   ii) Citing evidence from the map give two social activities carried out in the area covered by the map (4 marks)
   iii) Name two natural feature fond at the distribution of settlement in the area covered by the map (6 marks)
   c) Explain three factors which have influenced the distribution of settlement in the area covered by the map (6 marks)
   d) Describe the drainage of the area covered by the map (5 marks)

7. a) State four factors that influence the rate of river erosion (4 marks)
   b) Explain three processes through which a river transports its load. (6 marks)
   c) Describe the formation of braided channels (6 marks)
   d) You are required to carry out a field study of a river.
      i) State five ways in which you would prepare for the study (5 marks)
ii) State four methods you would use to collect information in the field. 

8.(a) i. Differentiate between the process of formation of plutonic rocks and volcanic rocks 
ii) Describe how sedimentary rocks are formed mechanically 
iii) State three characteristics of sedimentary rocks 

b) i) Explain three processes of metamorphism 
ii) For each of the following rocks name the resultant rock that forms after metamorphism sandstone 
   a) Sandstone
   b) Limestone
   c) Granite
   d) Basalt
   e) State five uses of rocks 

9. a) i) State three tectonic forces that cause faulting.
ii) Apart from block mountain name three features resulting from faultings 

b) With the aid of a diagram describe the formation of a host mountain by tensional forces. 

9. c) Students from your school carried out a field study on a faulted landscape.
   i) Give two reasons why they carried out a pre-visit study .
   ii) Give four reasons why the students held a discussion before the study
   iii) Explain four positive effects of faulting to human activity 

10. a) i) What is the meaning of denudation
   ii) Give three factors that influence the rate of weathering
b) How does the process of granular disintegration cause weathering 

  c) i) Name four processes of mass wasting
   ii) State three factors that trigger rapid mass wasting
   d) Explain four effects of mass wasting on the environment
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SECTION A (25 MARKS)

Answer all questions in this section

1. Give three reasons why it is important to study geography (3mks)

2. a) Name two land surfaces that are reclaimed in Netherlands (2mks)
   b) Use the diagram to answer question b)

   ![Diagram]

3. Name the river marked R and the irrigation scheme marked P. (2mks)
   a) State two nets used in seining fishing method (2mks)
   b) Give three reasons why the Kenyan Coastal water is not rich in fish (3mks)

4. a) Identify two types of internal trade (2mks)
   b) Give three factors that limit trade among the member states of the Common Market for Eastern and South Africa (COMESA) (2mks)

5. a) List three environmental hazards associated with climatic conditions (3mks)
   b) State five problems caused by windstorms in Kenya (5mks)

SECTION B

Answer question 6 and any other two questions in this section

Use the data given below to answer questions a and b

<table>
<thead>
<tr>
<th>PROVINCE</th>
<th>AREA (MK$^2$)</th>
<th>NO. OF DAIRY ANIMALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rift Valley</td>
<td>182539</td>
<td>1652000</td>
</tr>
<tr>
<td>Central</td>
<td>13220</td>
<td>855000</td>
</tr>
<tr>
<td>Eastern</td>
<td>153473</td>
<td>344000</td>
</tr>
<tr>
<td>North Eastern</td>
<td>128124</td>
<td>—</td>
</tr>
<tr>
<td>Nairobi</td>
<td>696</td>
<td>17000</td>
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<tr>
<td>Coast</td>
<td>82816</td>
<td>73000</td>
</tr>
</tbody>
</table>

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312/2 English Turn Over
Nyanza | 12547 | 216000
Western | 8264 | 152000

Source – KARI (Kanya Agricultural Research Institute)

a) i) What is the total dairy animals in the Eat of Rift Valley
(2mks)
ii) Calculate the distribution density of dairy animals in each province
(4mks)

b) i) Using the chropleth method show the distribution of dairy animals in Kenya
(10mks)
[ the map of Kenya is provided.]

ii) Give three factors which favour beef farming in the Nyika Plateau
(3mks)

c) Explain three reasons why horticulture farming is encouraged in Kenya.
(6mks)

7. a) i) What is energy
(2mks)
ii) Name three non-renewable sources of energy other than petroleum.
(3mks)

b)i) State three factors which favoured the location of Owen Falls Dam in Uganda
(3mks)
ii) Explain three ways in which Uganda has benefited from the development of Owen Falls Dam.
(6mks)

c) i) State three problems associated with the development of energy in Kenya
(3mks)
ii) Give any four causes of energy crisis in the World
(4mks)
d) Study the map of Africa below and answer the following question.

ii) Name the power stations marked K, L, M, and N

**HYDROELECTRIC POWER PROJECTS IN AFRICA**

What is eco-tourism in Kenya

b) i) Give four tourist attractions found at the coast of Kenya

ii) State five problems associated with tourism in Kenya.

c) State four ways in which games reserves are of benefit to the communities living near them.

d) Explain the differences between tourism in Kenya and Switzerland.

9.a) i) Name three agricultural non-food processing industries in Kenya

ii) State for ways in which Kenya has benefited from the motorbike–vehicle industry.

b) Explain three problems arising from industrialization in Kenya

c) Explain three factors which influenced the location of iron and steel industry in the rural region of Germany in the 19th C.

d) You intend to carry out a field study of a furniture-making industry in the local market centre

i) State two reasons why it would be necessary for you to visit the area of study in advance.

ii) For your field study you have prepared a work schedule state two items you would include in the schedule.
iii) Give two advantages of studying about furniture through field work  

10. a) i) Differentiate between internal and regional trade. 
   ii) List three major exports from Kenya to European Union (EU) 
   b) Give four reasons why the southern African Development cooperation (SADC) was formed  
   c) Explain four problems facing trade in Kenya  
   d) Explain how the future of internal trade in Kenya can be improved