TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Pull out the Answer Booklet from the question paper.

2. Write your name, examination number and school/centre name on the Answer Booklet.

3. There are three (3) sections in this paper, A, B and C.

4. Answer four questions: two from section A, one from section B and one from section C.

5. Write ALL your answers in the Answer Booklet provided. Do not write anything on this question paper.

6. Indicate questions attempted in the box on the front page of the Answer Booklet.

7. Cell phones are not allowed in the examination room.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO

©ECZ/2013/D4  This question paper consists of 11 printed pages.
SECTION A

1 Read the passage below and answer the questions that follow.

"It is the Zambian government initiative to ensure that there is conservation of natural resources in the country. Among these resources are forests which are heavily guarded against depletion. Some forests are planted by government and occur in pure stands to provide timber to various industries. Apart from these forests, there are others which grow naturally. Deforestation is not encouraged in any form."

A What is deforestation? [1]

B What kind of forests are planted in Zambia? [1]

C Give two tree species found in forests stated in B. [2]

D State two advantages of forests that grow naturally. [2]

E What does the term “pure stand” mean? [1]

F Mention three causes of forests depletion. [3]

G State two measures that the Zambian government has put in place to prevent forest depletion. [2]

H Give three reasons why forests are important. [3]

[15 marks]
2 Study the table below showing areas found in Zambia and answer the questions that follow.

<table>
<thead>
<tr>
<th>Area</th>
<th>Altitude (m)</th>
<th>Maximum temperature (°C)</th>
<th>Lowest Temperature (°C)</th>
<th>Annual Rainfall (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>1269</td>
<td>24</td>
<td>16.2</td>
<td>1190</td>
</tr>
<tr>
<td>X</td>
<td>382</td>
<td>33</td>
<td>19</td>
<td>580</td>
</tr>
<tr>
<td>Y</td>
<td>1126</td>
<td>27</td>
<td>18</td>
<td>940</td>
</tr>
<tr>
<td>Z</td>
<td>1240</td>
<td>25.8</td>
<td>16.6</td>
<td>841</td>
</tr>
</tbody>
</table>

A Which area received the highest annual rainfall? [1]
B What is the annual range of temperature for Area Y? [1]
C What is the total annual rainfall received in the four areas? [1]
D Name the area which lies in the valleys of Zambia. [1]
E Suggest two reasons for your answer in question D. [2]
F State three crops besides maize that are cultivated in area X. [3]
G State three factors that promote crop cultivation in area Z apart from moderate rainfall. [3]
H List three advantages of traditional methods of cultivation practiced in Zambia. [3]

[15 marks]
3 Study the population figures for the provincial towns of Zambia between 2000 and 2010 and answer questions that follow.

<table>
<thead>
<tr>
<th>TOWN</th>
<th>POPULATION IN 2000</th>
<th>POPULATION IN 2010</th>
<th>DIFFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chipata</td>
<td>1 306 178</td>
<td>1 707 731</td>
<td>401 558</td>
</tr>
<tr>
<td>Kabwe</td>
<td>1 012 257</td>
<td>1 267 803</td>
<td>255 546</td>
</tr>
<tr>
<td>Kasama</td>
<td>1 253 696</td>
<td>1 759 600</td>
<td>505 904</td>
</tr>
<tr>
<td>Livingstone</td>
<td>1 212 124</td>
<td>1 606 793</td>
<td>394 669</td>
</tr>
<tr>
<td>Lusaka</td>
<td>1 391 329</td>
<td>2 198 996</td>
<td>807 667</td>
</tr>
<tr>
<td>Mansa</td>
<td>775 353</td>
<td>958 976</td>
<td>183 623</td>
</tr>
<tr>
<td>Mongu</td>
<td>765 088</td>
<td>881 524</td>
<td>116 436</td>
</tr>
<tr>
<td>Ndola</td>
<td>1 581 221</td>
<td>1 958 623</td>
<td>377 402</td>
</tr>
<tr>
<td>Solwezi</td>
<td>583 350</td>
<td>706 462</td>
<td>123 112</td>
</tr>
</tbody>
</table>

A Name the town with the least population increase between 2000 and 2010. [1]

B What was the total population of the towns found along the line of rail in 2010? [1]

C Name the town with the highest population growth. [1]

D What was the total population in towns far away from the line of rail in 2010? [1]

E Give two possible reasons why the population of Kabwe is lower than that of Livingstone. [2]

F State three problems caused by rapid population increase in urban centres in Zambia. [3]

G State two major economic activities of people who live around Lake Mweru. [2]

H HIV/AIDS is one of the killer diseases in Zambia. Suggest two ways in which it can be prevented. [2]

I What does the term “infant mortality” mean? [1]

J What is the traditional movement of people and their livestock from the plain to the plateau called? [1]

[15 marks]
4 Study the map below and answer the questions that follow

A Name Waterfall A. [1]

B Name Town B. [1]

C Name the National Park C and Province D. [2]

D Name the tourist attraction found around E. [1]

E Name one Herbivorous and one Carnivorous animal found in National Park C. [2]

F State two problems faced by people who live near National Parks. [2]

G State two disadvantages of tourism in Zambia. [2]

H State one service offered to tourists in Livingstone. [1]

I State two cultural tourist attractions in Zambia. [2]

J Mention one role of the Zambia Tourism Board. [1]

[15 marks]
[Turn over]
SECTION B

5 Study the map below and answer the questions that follow.

![Map of Africa](image)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Name the Ocean Current A and the Sea B. [2]</td>
</tr>
<tr>
<td>B</td>
<td>Name the Highland C. [1]</td>
</tr>
<tr>
<td>C</td>
<td>Name River D. [1]</td>
</tr>
<tr>
<td>D</td>
<td>Give one reason why the Eastern side of mountain E has higher rainfall than the western side. [1]</td>
</tr>
<tr>
<td>E</td>
<td>The Orange river project is one of the biggest in South Africa. Give two reasons why the project was started. [2]</td>
</tr>
<tr>
<td>F</td>
<td>Name two minerals found in the shaded area shown on the map. [2]</td>
</tr>
<tr>
<td>G</td>
<td>Give two reasons why the mineral deposits in the shaded area on the map are important. [2]</td>
</tr>
<tr>
<td>H</td>
<td>Other than mining, state two economic activities associated with deserts in Africa. [2]</td>
</tr>
<tr>
<td>I</td>
<td>Give two reasons why some rivers are not used for transport. [2]</td>
</tr>
</tbody>
</table>

[15 marks]
6 Study the pie chart below showing sources of power in Africa and answer the questions that follow.

A Which source of power is widely used in Africa? [1]

B Name the source of fuel that is widely used among the rural people of Africa. [1]

C State two sources of power found in OTHERS (12%). [2]

D Name the type of power that is generated from petroleum. [1]

E Which country is the largest producer of petroleum in Southern Africa? [1]

F Give two factors that affect the production of petroleum in Africa. [2]

G Give three reasons why environmentalists discourage the use of the forests as a source of fuel. [3]

H Several dams in Africa have been built to hold large volumes of water for power generation. Name any two major dams, one north of the Equator and another south of the Equator. [2]

I Give two effects of constructing a dam on a river. [2]

[15 marks]
7 Study the map below and answer the questions that follow.

A Name Ocean A and River B. [2]

B Name one variety of coffee grown on the mountain slopes shown. [1]

C What is the name of coffee growing area C. [1]

D Mention three conditions that favour coffee growing in area C. [3]

E State one way in which Ocean A supports the coffee industry in Kenya. [1]

F Give three reasons why coffee cultivation is important to the economy of Kenya. [3]

G State three problems that affect coffee export in Kenya. [2]

H State one use of coffee beans. [2]

[15 marks]
SECTION C

8 Study the diagram below and answer the questions that follow.

A In which climatic region is the above forest found? [1]

B How many distinct layers are found in the forest? [1]

C Name two countries in Africa, south of the Equator where the above forest is found. [2]

D Name two trees that form the above forest. [2]

E Give one reason why there is no undergrowth in the above forest. [1]

F State three crops that are cultivated in the climatic region identified in question A. [3]

G The areas with the forest type shown in the diagram have been very difficult to develop. Suggest three reasons why there is under development. [3]

H State the months in which the climatic region records the highest rainfall during the year. [2]

[15 marks]

[Turn over]
9 Study the table below and answer the questions that follow.

<table>
<thead>
<tr>
<th>MONTH</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPERATURE (°C)</td>
<td>22</td>
<td>22</td>
<td>20</td>
<td>17</td>
<td>14</td>
<td>12</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>20</td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>PRECIPITATION (°C)</td>
<td>140</td>
<td>102</td>
<td>89</td>
<td>25</td>
<td>13</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>25</td>
<td>51</td>
<td>102</td>
<td>102</td>
</tr>
</tbody>
</table>

A What is the annual precipitation of the station above? [1]

B Calculate the annual temperature range for the station. [1]

C State three climatic characteristics of the station. [3]

D What vegetation type dominates the station? [1]

E Mention one area in Africa that has this type of climate. [1]

F Name one crop that is widely cultivated in the area where the station is located. [1]

G Apart from meat, state three products that nomadic herders get from the animals they rear. [3]

H Give three differences between intensive farming and extensive farming. [3]

I In most parts of Africa, droughts affect farming. What does the term ‘drought’ mean? [1]

[15 marks]
10 Study the passage below and answer the questions that follow.

“New Zealand’s major farming and economic activity is dairying. More than two million dairy cattle are reared for this purpose. This type of farming seems to also dominate the Danish economy. Other economies, however, depend much on mutton and wool, like Australia’s major exports.”

A What is the major economic activity for Denmark? [1]

B What are dairy cattle? [1]

C State two breeds of dairy cattle kept in New Zealand. [2]

D State three factors that favour dairy farming in the stated countries. [3]

E Give two reasons why the named countries export more dairy products. [2]

F One of Australia’s major exports is mutton. What is mutton? [1]

G Give two similarities between the dairy farms in Denmark and New Zealand. [2]

H State two problems that affect animal farming in the stated countries. [2]

I Hay is used on animal farms as feed. What is hay? [1]

[15 marks]