(INTERNAL & EXTERNAL CANDIDATES)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

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

2. Write your name, examination number, school / centre name and code 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
SECTION A

1. Study the Weather forecast for Zambia and answer the questions that follow

WEATHER FORECAST

1. General Situation
A shallow layer of moist airflow is affecting western Zambia while the rest of the country is under the influence of the North East Monsoon.

24 hour rainfall reported at 08.00 hours this morning: Mansa 25mm Kalulushi 11mm while Livingstone, Solwezi and Kaoma had less than a millimeter.

2. Maximum and Minimum temperature (°C)

<table>
<thead>
<tr>
<th>Station</th>
<th>Max</th>
<th>Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chipata</td>
<td>34</td>
<td>19</td>
</tr>
<tr>
<td>Kabwe</td>
<td>33</td>
<td>17</td>
</tr>
<tr>
<td>Kasama</td>
<td>32</td>
<td>19</td>
</tr>
<tr>
<td>Lusaka</td>
<td>32</td>
<td>17</td>
</tr>
<tr>
<td>Livingstone</td>
<td>36</td>
<td>18</td>
</tr>
<tr>
<td>Mansa</td>
<td>31</td>
<td>18</td>
</tr>
<tr>
<td>Mongu</td>
<td>36</td>
<td>19</td>
</tr>
<tr>
<td>Ndola</td>
<td>34</td>
<td>19</td>
</tr>
<tr>
<td>Solwezi</td>
<td>33</td>
<td>18</td>
</tr>
</tbody>
</table>

A What is meant by the term Weather? [1]
B Name the winds that affected western Zambia on this day. [1]
C Name two towns which recorded the lowest minimum temperature on this particular day. [2]
D Suggest two reasons why the two towns experienced lowest temperature. [2]
E What is the daily range of temperature obtained from the figures shown in the forecast for Kasama? [1]
F Suggest the type of rain that fell on the towns on this particular day. [1]
G Give one reason why rainfall in Zambia decreases from North to South. [1]
What is the name of the low pressure belt which develops over Zambia between November and March?  [1]

Give two effects of high occasional rainfall on the valley areas of Zambia.  [2]

Give two reasons why the South East trade winds bring little rainfall to Zambia.  [2]

State one reason why weather forecasting is important to Zambia.  [1]

[15 marks]

Study the graph below which shows production of selected crops in Zambia in recent years and answer the questions which follow.

![Bar graph showing production of selected crops in Zambia]

A Name two main cash crops shown on the graph above.  [2]

B Name two major areas in Zambia where groundnuts are grown.  [2]

C Give three benefits of commercial farming to Zambia.  [3]

D State two uses of sunflower.  [2]

E Give two reasons why the government encourages farmers of the valleys to grow millet and sorghum.  [2]

F Give two reasons why it is important to grow soya beans in Zambia.  [2]

G Give two reasons why wheat is mainly grown by commercial farmers.  [2]

[15 marks]
3 Study the table below which shows different types of manufacturing industries and answer the questions which follow.

<table>
<thead>
<tr>
<th>Town</th>
<th>Machinery and metal products</th>
<th>Food processing</th>
<th>Textile and Clothing</th>
<th>Furniture</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lusaka</td>
<td>30</td>
<td>16</td>
<td>20</td>
<td>17</td>
<td>83</td>
</tr>
<tr>
<td>Ndola</td>
<td>22</td>
<td>5</td>
<td>40</td>
<td>6</td>
<td>73</td>
</tr>
<tr>
<td>Kitwe</td>
<td>37</td>
<td>5</td>
<td>9</td>
<td>3</td>
<td>54</td>
</tr>
</tbody>
</table>

A Name the town that has the highest number of industries making machinery and metal related products. [1]

B Give two reasons why the town named in question A has a large number of such industries. [2]

C Mention two areas where raw materials for the textile and clothing industry in Ndola come from. [2]

D Name two manufacturing industries in Ndola that have been closed down because of privatization during the 1990s. [2]

E State two reasons why Lusaka has the largest number of food processing industries. [2]

F Mention two incentives given to investors to locate industries in less favourable areas. [2]

G State two examples of food processing industries located in Lusaka. [2]

H Suggest two problems affecting manufacturing industries brought about by liberalization. [2]

[15 marks]
4. Study the map of Zambia below which shows the distribution of population and answer the questions that follow.

A. Name the unnamed towns found in the densely populated areas A and B. [2]

B. What is the name of the sparsely populated area near Lake Kariba? [1]

C. Give three reasons why area C is sparsely populated. [3]

D. State three reasons why the population of Ndola has declined in growth in recent years. [3]

E. What is meant by the term national increase of population? [1]

F. Give two advantages of conducting census regularly. [2]

G. The population of Lusaka has increased rapidly in recent years. State three effects this has on urban life. [3]

[15 marks]
SECTION B

5 Study the map of Africa below and answer the questions that follow

A Name the main physical feature in region A. [1]
B Name marshland B. [1]
C Name Wind C. [1]
D Give two reasons why wind C changes direction upon crossing the equator. [2]
E Name the natural climatic region D. [1]
F Name the oil producing country E. [1]
G State two economic activities around marshland B. [2]
H Give two effects of highland F on the climate of South Africa. [2]
I State two reasons why the people living in area D are mainly pastoralists. [2]
J Give two uses of canal G. [2]

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

A Name the cattle keeping areas A and B. [2]

B Name two breeds of cattle kept in area B. [2]

C Name one cattle keeping tribe living in area C. [1]

D Suggest two reasons why cattle keeping is important in the shaded areas. [2]

E Give two reasons why there is more commercial livestock rearing in area B than in other areas. [2]

F Name two by-products of pastoral industry in the shaded areas. [2]

G Given two reasons why commercial livestock rearing is spreading to many areas in area B. [2]

H Suggest two problems facing livestock farmers in area A. [2]

[15 marks]

[Turn over]
7 Study the farmer's calendar and a climatic graph for Gezira in Sudan and then answer the questions that follow.

A Name the crop which is harvested during the period January to March. [1]

B Name two farming activities which are carried out in October. [2]

C Give one reason why harvesting of the named crop in question A is done during the period mentioned. [1]

D In which month is wheat sown? [1]

E Give two reasons why cotton is irrigated in the Gezira scheme. [2]

F Give two reasons why the rearing of livestock is important in the Gezira scheme. [2]

G State three reasons why farmers at Gezira practice crop rotation. [3]

H State three factors which favour cotton production in the Gezira scheme. [3]

[15 marks]
8 Study the table below and answer the questions that follow.

<table>
<thead>
<tr>
<th>Climate type</th>
<th>Pressure</th>
<th>Prevailing winds</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Equatorial</td>
<td>Low air pressure all year</td>
<td>None</td>
<td>Convectional all year</td>
</tr>
<tr>
<td>2 Savanna (transition between hot desert and equatorial)</td>
<td>High air pressure in winter</td>
<td>North east trades in winter</td>
<td>Very little</td>
</tr>
<tr>
<td></td>
<td>Low air pressure in summer</td>
<td>None in summer</td>
<td>Convectional rain</td>
</tr>
<tr>
<td>3 Hot deserts</td>
<td>High air pressure all year</td>
<td>North east trades all year</td>
<td>Very little</td>
</tr>
</tbody>
</table>

A Name the season in which the savanna region experiences a low pressure. [1]

B Give one reason why hot deserts do not receive rainfall all year round. [1]

C State the main type of rainfall which is received in the equatorial regions. [1]

D Give one reason why savanna region experiences low air pressure in the season named in question A above. [1]

E What is a prevailing wind? [1]

F State three characteristics of Savanna climate. [3]

G Give three differences between the vegetation of equatorial and savanna regions. [3]

H State two similarities in the economic activities between the savanna and the hot deserts. [2]

I Give two reasons why the savanna is richer in wild animals than the hot deserts. [2]

[15 marks]
9 Study the following climatic figures for station X 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>Temp (°C)</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>15</td>
<td>18</td>
<td>22</td>
<td>25</td>
<td>26</td>
<td>23</td>
<td>20</td>
<td>17</td>
<td>13</td>
</tr>
<tr>
<td>Rainfall (mm)</td>
<td>70</td>
<td>40</td>
<td>50</td>
<td>50</td>
<td>20</td>
<td>10</td>
<td>0</td>
<td>20</td>
<td>40</td>
<td>75</td>
<td>65</td>
<td>65</td>
</tr>
</tbody>
</table>

A What is the mean annual temperature of station X? [1]
B What is the temperature range of station X? [1]
C In which hemisphere is station X? Give one reason for your answer. [2]
D In which season is the lowest amount of rainfall recorded for station X? Give two reasons for your answer. [3]
E Name one area in Southern Africa that experience a similar type of climate. [1]
F Suggest two factors which restrict plant growth in the region represented by station X. [2]
G Give two reasons why terrace farming is widely practiced in this climatic region. [2]
H What is meant by the term arable farming? [1]
I State two major economic activities carried out in this climatic region represented by Station X. [2] [15 marks]
10 Study the map below which shows Dairy farming areas of New Zealand and answer the questions that follow.

A Name Island A.
B Name dairy farming region B.
C Most of the Dairy cattle kept in New Zealand is “Exotic”. What is meant by the term, Exotic Cattle?*
D Name two breeds of Dairy cattle kept by the farmers.
E Most Dairy cattle are sometimes stall-fed. Give one reason why farmers do this.
F Give one reason why stall-feeding in New Zealand is rare.
G State two factors which favour dairy farming in area B.
H State one reason why New Zealand prefers exporting butter to fresh milk.
I Name one main export market for New Zealand’s butter.
J State two farming activities which show that Dairy farming in New Zealand is scientific and mechanized.
K List two problems which affect Dairy farming in New Zealand.

[15 marks]