EXAMINATIONS COUNCIL OF ZAMBIA
Joint Examination for the School Certificate
and General Certificate of Education Ordinary Level

GEOGRAPHY

PAPER 1

Tuesday 8 November 2011 1 hour 30 minutes

1:50 000 Survey Map is enclosed with this question paper

Additional materials:
Multiple Choice Answer Sheet

Soft pencil (type B and B2) is recommended

TIME 1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

1. Do not open this question paper until you are told to do so.

2. Ensure that your name, centre number and candidate number have been correctly written on the Answer Sheet provided.

3. There are fifty (50) questions in this paper. Answer all the questions. For each question, there are four possible answers, A, B, C and D. Choose the one you consider correct and shade your choice in clear pencil on the separate Answer Sheet.

4. Read very carefully the instructions on the answer sheet provided.

INFORMATION FOR CANDIDATES

1. Each correct answer will score one mark. A mark will not be deducted for a wrong answer.

2. Cell phones and calculators are not allowed in the examination room.
Section A: Mapwork and Basic Techniques

Questions 1 to 12 are based on the 1:50 000 map extract of Mbalabala (Zimbabwe).

1. What is the six figure grid reference of the Ruins, east of Incema river?
   A. 135436
   B. 136437
   C. 153446
   D. 436135

2. The bearing of the Ruins, east of Incema river from the trigonometrical station in grid square 1640 is ...
   A. 55°
   B. 20°
   C. 270°
   D. 320°

3. What is the approximate distance of the railway from the quarry in grid square 1339 to its southern end?
   A. 2.8 kilometres
   B. 3.0 kilometres
   C. 3.2 kilometres
   D. 3.4 kilometres

4. What is the direction of Embalabala Hill in grid square 1647 from Mbalani Hill in grid square 2243?
   A. North East
   B. North West
   C. South East
   D. South West

5. According to map evidence, which one of the following economic activities take place in Mbalabala?
   A. Mining and plantation farming.
   B. Livestock rearing and mining.
   C. Lumbering and manufacturing.
   D. Power production and fishing.

6. What is the physical feature found in grid square 2139?
   A. Braided stream
   B. Confluence
   C. Ox-bow lake
   D. Rapids
7 In which grid square is there the scantiest vegetation density?
   A  1638
   B  1738
   C  1838
   D  1938

8 According to map evidence, which one of the following services is not offered in grid square 1338?
   A  Accommodation
   B  Education
   C  Communication
   D  Transportation

9 The general relief of the area south west of Inyankuni Dam is ...
   A  flat.
   B  gentle.
   C  rough.
   D  undulating.

10 What attracted the settlement in grid square 1940?
   A  Easy transport
   B  Easy source of power
   C  Relatively flat land
   D  Special services
11 Study the map extract below.

The track indicated above passes through a ... 
A divide.  
B mountainous area.  
C plateau.  
D valley.

12 What is the gradient of the road between the bridges in grid squares 2237 and 1837?  
A 1:70  
B 1:80  
C 1:90  
D 1:100
Section B: Elements of Physical Geography

13 Study the diagram below.

![Diagram of Earth and Celestial Bodies]

Which angle determines longitude 60°W?

A NÔR  
B NÔW  
C RÔW  
D WÔN

14 Study the diagram below showing the Solar System.

![Diagram of Solar System]

Which one of the planets A, B, C or D has the longest orbit?

15 Which one of the following factors is responsible for all the forms of mass movement?
   A Gravity  
   B Moisture  
   C Pressure  
   D Temperature

16 Which one of the following is not a process of chemical weathering?
   A Decomposition  
   B Frost action  
   C Oxidation  
   D Solution
17 Study the diagram below which shows the features of a volcano.

What are the features labelled x, y and z?

<table>
<thead>
<tr>
<th></th>
<th>x</th>
<th>y</th>
<th>z</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Crater</td>
<td>Parasitic cone</td>
<td>Dyke</td>
</tr>
<tr>
<td>B</td>
<td>Dyke</td>
<td>Crater</td>
<td>Parasitic cone</td>
</tr>
<tr>
<td>C</td>
<td>Dyke</td>
<td>Parasitic cone</td>
<td>Crater</td>
</tr>
<tr>
<td>D</td>
<td>Parasitic cone</td>
<td>Dyke</td>
<td>Crater</td>
</tr>
</tbody>
</table>

18 Study the diagram below showing a delta.

What river features are represented by R and S?

<table>
<thead>
<tr>
<th>R</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Estuary</td>
</tr>
<tr>
<td>B</td>
<td>Estuary</td>
</tr>
<tr>
<td>C</td>
<td>Lagoon</td>
</tr>
<tr>
<td>D</td>
<td>Ox-bow lake</td>
</tr>
</tbody>
</table>

19 A dormant volcano is one that ...
   A erupts periodically.
   B erupts very quietly.
   C erupts violently.
   D is sleeping.
20 Which **one** of the following is **not** as a result of vertical earth movements?

A Basin lakes  
B Flood plains  
C Intermont plateaus  
D Tectonic plateaus.

21 Study the diagram below which is a cross section through the earth.

![Diagram of Earth's Cross Section](image)

Which **one** of the following is the correct mineral composition of the continent?

A Aluminum and Magnesium  
B Silica and Magnesium  
C Silica and Aluminum  
D Nickel and Magnesium

22 Study the diagram below

![Diagram of Flood Plain](image)

What is the importance of the river feature labelled \(z\)?

A Creates more space for fish  
B Increases silt deposition on plains  
C Reduces risk of flooding  
D Reduces speed of water flow

23 What instrument is used in determining wind speed?

A Anemometer  
B Barometer  
C Hygrometer  
D Wind vane

Turn over
24 Which one of the following has the least influence on temperature?
   A Altitude.
   B Cloud cover.
   C Latitude.
   D Longitude.

25 Study the diagram below.

![Diagram with isobars and pressure numbers]

What is the atmospheric condition at X?
   A Cold
   B Hot
   C Very cold
   D Warm

26 Study the diagram below.

![Diagram of a wind rose]

The diagram above represents ...
   A a barograph.
   B a wind rose.
   C a wind vane.
   D an okta.
27 What causes convectional rainfall?
   A  Air crossing a cool ocean
   B  Descending of warm air
   C  Rising of air over a mountain
   D  Rising of heated air

28 Which one of the following is characteristic of the Mediterranean climate?
   A  Heavy precipitation all year round with a double maximum.
   B  Hot, dry summers and wet, mild winters.
   C  Long winter drought with short summers.
   D  Long wet summers with dry winters.

29 Study the table below which shows mean monthly temperatures for Verkhoyansk.

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature °C</td>
<td>-50</td>
<td>-40</td>
<td>-30</td>
<td>-13</td>
<td>2</td>
<td>14</td>
<td>15.5</td>
<td>10</td>
<td>1</td>
<td>-14</td>
<td>-38</td>
<td>-45</td>
</tr>
</tbody>
</table>

The annual range of temperature is ...  
   A  -34°C
   B  34°C
   C  50°C
   D  65.5°C

30 Study the table below showing climatic data for a certain station.

<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>21</td>
<td>21</td>
<td>20</td>
<td>17</td>
<td>15</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>14</td>
<td>16</td>
<td>18</td>
<td>20</td>
</tr>
<tr>
<td>Precipitation (mm)</td>
<td>18</td>
<td>15</td>
<td>23</td>
<td>48</td>
<td>97</td>
<td>114</td>
<td>94</td>
<td>86</td>
<td>58</td>
<td>41</td>
<td>28</td>
<td>20</td>
</tr>
</tbody>
</table>

This station lies in ...  
   A  a hot desert area near an ocean.
   B  a Mediterranean land.
   C  a tropical grassland.
   D  an equatorial area on a mountain.

31 Which one of the following tree species is found in the tropical grassland?
   A  Acacia
   B  Ebony
   C  Mahogany
   D  Oak
32 A climatic region with very high temperatures, dry all year round with occasional thunderstorms and cold nights is likely to have vegetation that is ...

A evergreen
B halophytic
C saprophytic
D xerophytic

Section C: Elements of World Human Geography

33 How can traffic congestion be reduced in large cities?

A Constructing by-pass routes.
B Creating single lanes.
C Encouraging use of private vehicles.
D Impounding over-speeding vehicles.

34 Study the graph of a population structure

The graph shows the population structure of ...

A Egypt.
B Mexico.
C Spain.
D Zambia.
35 Which statement is true about the country represented by the population pyramid shown in question 34?
   A  There is a lower life expectancy.
   B  There is high fertility and mortality.
   C  There is low fertility and mortality.
   D  There is stable fertility and mortality.

36 Which one of the following has the least effect on birth rate?
   A  Contraceptives
   B  Education
   C  Health
   D  Migration

37 Study the list below showing different uses of a particular crop.
   (i) As a fuel
   (ii) An animal feed
   (iii) For alcoholic spirits
   (iv) Confectionery products

Which one of the following crops is used in all the four ways?
   A  Barley
   B  Maize
   C  Millet
   D  Sugarcane

38 Ginning refers to ...
   A  gathering of cotton bolls from the plant.
   B  joining of cotton fibres to form a continuous thread.
   C  separation of the seeds from the cotton fibres.
   D  washing of cotton bolls from the plant.

39 The common feature between rice and wheat is that both require similar ...
   A  rainfall amounts.
   B  relief conditions.
   C  soil types.
   D  temperatures.
40  The diagram shows the cycle of rural poverty.

What form of assistance would help improve agricultural production in the given rural area?
A  Big high interest loan.
B  Provision of relief food annually.
C  Small agro-inputs loans.
D  Use of traditional production methods.

41  Growing of flowers for commercial purposes is known as ...
A  agriculture.
B  floriculture.
C  market gardening.
D  silk production.

42  How can tsetse fly infestation be controlled?
A  Increasing number of male tsetse flies.
B  Preserving more bushes.
C  Spraying of infested areas.
D  Treating the infected livestock.

43  Study the graph showing the world’s leading producers of nuclear power.

Which one of the countries A, B, C or D represents Japan?
44 Which one of the following is not a by-product of petroleum?
   A Bitumen
   B Gasoline
   C Kerosine
   D Peat

45 One of the advantages of mining coal is that ...
   A HEP can easily be produced.
   B it is easy to transport.
   C medicine can be manufactured.
   D the environment is left clean.

46 The leading producer of natural gas in the world is ...
   A China.
   B Iran.
   C Netherlands.
   D USA.

47 Study the map of Australia below

![Map of Australia with shaded areas]

The shaded areas shown on the map are producers of ...
   A coal.
   B copper.
   C iron ore.
   D lead and zinc.

48 Why doesn't labour availability influence the location of large iron and steel centres?
   A Automatic machines are used.
   B Labour is less important.
   C Labour is mobile.
   D Very few employees are required.
49 Which **one** of the following types of iron ore has the highest content of phosphorus?

A  Hematite  
B  Limonite  
C  Magnetite  
D  Siderite

50 Study the diagram below.

What does this diagram represent?

A  Blast furnace  
B  Electric furnace  
C  Fractional distiller  
D  Open Hearth furnace
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