EXAMINATIONS COUNCIL OF ZAMBIA

Joint Examination for the School Certificate
and General Certificate of Education Ordinary Level

GEOGRAPHY 2218/1

PAPER 1

Friday 18 OCTOBER 2018

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

Additional materials:
- Multiple Choice answer sheet
- Soft pencil (type B or HB 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.

This question paper consists of 14 printed pages.
Section A: Mapwork and Basic Techniques

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

1. What is the six figure grid reference of the bridge that carries the wide tarred road and gravel road across the Pote River?
   A. 171804
   B. 173804
   C. 187804
   D. 804173

2. What man-made feature is found at grid reference 162856?
   A. Dam
   B. Mapungu Siding
   C. Railway Cutting
   D. Stream

3. What is the gradient between the trigonometrical station in grid square 1679 and the bridge in grid square 1780?
   A 1 in 1
   B 1 in 6
   C 1 in 15
   D 1 in 60

4. What is the distance along the Mazowe River in the north western part of the map extract?
   A. 5.4 km
   B. 5.8 km
   C. 6.2 km
   D. 6.6 km

5. In which grid square are the following: a powerline, railway embankments, wide tarred roads and sewerage ponds found?
   A. 2085
   B. 2185
   C. 2285
   D. 2385

6. What is the bearing of the Hospital in square 2287 from the sewerage ponds in square 2488?
   A. 66°
   B. 146°
   C. 206°
   D. 246°
7 Study the diagram below which shows part of the map extract.

![Diagram]

The physical feature represented by the lines A and B is a ...

A ridge.
B river valley.
C spur.
D watershed.

8 The settlement pattern in the area south of Pote River is ...

A dispersed.
B linear.
C nucleated.
D radial.

9 In which grid square is the highest hill?

A 1679
B 1987
C 2478
D 2486

10 Map evidence shows that the railway branch line to Burnside Estate and beyond was constructed to transport ...

A fish bundles.
B plantation crops.
C quarried materials.
D town employees.
11 Which range of services is evident at Bindura?
   A  District Administration Office, Sports field and Post office.
   B  Hospital, Police station and Church.
   C  Market, Post office and Sports field.
   D  Post and Telegraph Agency, Police Station and Hospital.

12 What major economic activities are carried out in the area north of grid line 86?
   A  Farming and Power Production
   B  Fishing and Mining
   C  Mining and Farming
   D  Ranching and Fishing

**Section B: Elements of Physical Geography**

13 Study the diagram below.

![Diagram of the Earth's orbit with specific angles and positions]

The diagram shows the position of the earth in its orbit on ...

   A  21st March.
   B  21st June.
   C  22nd December.
   D  23rd September.

14 What is the longitude of a place whose local time is 1200 hours when Greenwich time is 1600 hours?
   A  45°E
   B  45°W
   C  60°E
   D  60°W

15 The long term usefulness of volcanism is that it promotes ...
   A  crop growing.
   B  industrialization.
   C  lumbering.
   D  uranium mining.
16 Study the diagram below showing a river profile.

Which load A, B, C or D, is being transported by saltation?

17 A Seismograph is an instrument used to ...
A monitor earthquakes and their effects.
B show an earthquake's intensity.
C show the effect of an earthquake.
D show the magnitude of damage by an earthquake.

18 Study the map of Africa below.

What environmental hazard has affected the shaded area?
A Acid rain
B Drought
C Floods
D Tropical storms
19 Study the diagram below, showing a rock structure.

What type of rocks are associated with the type of weathering shown in the diagram?
A  Hard resistant rocks.
B  Rocks of uniform structure.
C  Rocks which are soft.
D  Rocks which have layers.

20 Study the diagram below which shows volcanic features.

Which one of the following is correct?

<table>
<thead>
<tr>
<th></th>
<th>W</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Laccolith</td>
<td>Sill</td>
<td>Dyke</td>
<td>Lava plateau</td>
</tr>
<tr>
<td>B</td>
<td>Lava plateau</td>
<td>Dyke</td>
<td>Laccolith</td>
<td>Batholith</td>
</tr>
<tr>
<td>C</td>
<td>Lava plateau</td>
<td>Sill</td>
<td>Dyke</td>
<td>Laccolith</td>
</tr>
<tr>
<td>D</td>
<td>Volcano</td>
<td>Lava plateau</td>
<td>Sill</td>
<td>Dyke</td>
</tr>
</tbody>
</table>
21 Study the diagram below showing a folded part of the earth's surface.

What type of force is responsible for the formation of the feature shown?
A  Compression
B  Lateral movement
C  Tension
D  Vertical movement

22 Study the diagram shown below.

What type of a fault is indicated by the diagram?
A  Normal fault
B  Reverse fault
C  Tear fault
D  Thrust fault

23 A pupil in charge of a school weather station recorded the minimum and maximum temperature of a day, and subtracted the minimum temperature from the maximum temperature. The difference was recorded as ...
24 Study the diagram below.

![Thermometer Diagram]

What is the instrument used to measure?

A  Body temperature  
B  Maximum temperature  
C  Maximum and Minimum temperature  
D  Minimum temperature

25 Study the table below showing climatic data.

<table>
<thead>
<tr>
<th>DAY</th>
<th>Temperature (°C)</th>
<th>Rainfall (mm)</th>
<th>Cloud cover (oktas)</th>
<th>Relative humidity (%)</th>
<th>Dew Point Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max</td>
<td>Min</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>26</td>
<td>17</td>
<td>60</td>
<td>6</td>
<td>70</td>
</tr>
<tr>
<td>B</td>
<td>24</td>
<td>16</td>
<td>70</td>
<td>8</td>
<td>80</td>
</tr>
<tr>
<td>C</td>
<td>25</td>
<td>18</td>
<td>56</td>
<td>7</td>
<td>74</td>
</tr>
<tr>
<td>D</td>
<td>26</td>
<td>15</td>
<td>65</td>
<td>7</td>
<td>78</td>
</tr>
</tbody>
</table>

On which day A, B, C or D did air come closest to saturation?
26 Study the diagram below.

Which one of the following is a correct deduction?

A  The temperature difference between W and Z is high.
B  The temperature difference between X and Y is high.
C  The temperature difference between X and V is low.
D  The temperature difference between Z and Y is very high.

27 An isobar is a line drawn on a map joining places of . . .

A  uniform air pressure.
B  uniform humidity.
C  varying air pressure.
D  varying humidity.

28 Study the diagram and the map below.

To which one of the shaded areas A, B, C or D, is the type of rainfall shown on the diagram associated?
29 Which one of the following trees would be found in a place which experiences high temperature and heavy rainfall throughout the year?
A  Acacia
B  Cork oak
C  Greenheart
D  Spruce

30 Study the climatic data below for Station X, whose altitude is 18 metres above sea level.

<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>19</td>
<td>17</td>
<td>14</td>
<td>13</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>16</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>Rainfall (mm)</td>
<td>15</td>
<td>8</td>
<td>18</td>
<td>48</td>
<td>78</td>
<td>84</td>
<td>89</td>
<td>66</td>
<td>43</td>
<td>31</td>
<td>18</td>
<td>10</td>
</tr>
</tbody>
</table>

The natural vegetation at Station X would be ... 
A  evergreen trees and shrubs.
B  grassland with willows.
C  tall grass inter faced with trees.
D  teak forest and mangroves.

31 Which one of the following is true about the trees found in the Savanna region?
A  Crowns are cone-shaped.
B  Have straight trunks.
C  Roots store a lot of water.
D  They shed their leaves in the dry season.

32 Which one of the following is not a characteristic feature of natural vegetation of hot deserts? Having ... 
A  bulbous roots.
B  large leaves.
C  long, deep roots.
D  succulent leaves.
Section C: Elements of World Human Geography

33 Study the map below.

Which of the following is true regarding population in the shaded areas P and Q?

A  High density, high growth rate  High density, low growth rate
B  High density, low growth rate  High density, high growth rate
C  Low density, high growth rate  Medium density, low growth rate
D  Medium density, low growth rate  Low density, high growth rate

34 Which one of the following countries has the highest fertility rate?
A  Germany
B  Italy
C  Somalia
D  U.S.A

35 A country can be said to have an optimum population when the ...
A  Birth Rate and Death Rate are equal.
B  Birth Rate becomes stable.
C  Birth Rate is very high due to high fertility rate.
D  resources can sustain the population.

36 Which one of the following regions may not be classified as one of the world’s most populated areas?
A  Amazon basin
B  Nile River Valley
C  North Eastern U.S.A.
D  South Eastern China
37 What does the term, “Inter-cropping” mean?
   A Alternating cultivation of crops with fallowing.
   B Growing a crop in one field and then transplanting it to another field.
   C Growing different crops in alternate rows in a field.
   D Growing one type of crop twice a year in one field.

38 The highest density of rural population is generally associated with . . .
   A cattle ranching.
   B extensive wheat cultivation.
   C intensive rice cultivation.
   D nomadic herding.

39 Which one of the following is a characteristic of plantation farming?
   A Big farms with a diversity of crops.
   B Both capital and labour intensive.
   C Farms are divided into small holdings.
   D High mechanization with few labourers.

40 Which agricultural practice would quickly turn the Tropical Rain forest into Savannah grassland?
   A Livestock rearing.
   B Orchard farming.
   C Sedentary agriculture.
   D Shifting cultivation.

41 The diagram shows the production of a cash crop by the six main producers in the world.

![Diagram showing production of a cash crop by six countries]

To which one of the following crops does this apply?
   A Cocoa
   B Coffee
   C Rubber
   D Sugar Cane

42 Which one of the following is not a use of coal?
   A Generation of electricity
   B Manufacture of benzol
   C Production of aluminium
   D Production of coke
43 Which one of the following sources of energy would be affected by drought?
A Coal
B Hydro
C Oil
D Wind

44 What type of energy produced by human and animal waste is used for lighting, cooking and generating electricity?
A Biogas
B Ethanol
C Methane
D Petroleum

45 Which one of the following power plants is capital intensive?
A A biomass station
B A solar plant
C A wind power plant.
D An HEP plant

46 Study the Blast furnace below.

What is the main purpose of the fire-brick lining?
A Increase temperature within.
B Keep the molten materials cooler within.
C Protect the structure from collapsing.
D Shield the outer casing from excessive heat.
47 At which iron and steel manufacturing centre are both iron ore and coal obtained from somewhere else?
   A Gary in USA.
   B Dortmund in Germany.
   C Newcastle in Australia.
   D Zaporozhye in Russia.

48 Why has there been an increase in iron ore production in Australia in the last decades?
   A Australia's population has increased.
   B Foreign sources of iron ore have become exhausted.
   C New deposits of iron ore have been discovered and exploited.
   D There has been an improvement in means of transportation.

49 Which one of the following shows the correct order in the production of iron and steel?
   A Cast iron → Pig iron → Wrought iron → Steel
   B Cast iron → Wrought iron → Pig iron → Steel
   C Pig iron → Cast iron → Wrought iron → Steel
   D Pig iron → Wrought iron → Cast iron → Steel

50 Study the diagram below showing raw materials used in a blast furnace.

Which raw materials needed in the iron and steel processing plant are the cheapest to obtain?
   A Air and Water
   B Coke and limestone
   C Electricity and steel scrap
   D Limestone and iron ore
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