EXAMINATIONS COUNCIL OF ZAMBIA

Examination for School Certificate Ordinary Level

Geography

Paper 1

Tuesday 31 OCTOBER 2017

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

Additional materials:
Multiple Choice answer card
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 Card 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 Card.

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

Information for Candidates

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

2 Cell phones and calculators are not allowed in the examination room.

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This question paper consists of 12 printed pages

downloaded from zedpastpapers.com
SECTION A: MAP WORK AND BASIC TECHNIQUES
Questions 1 to 12 are based on the 1:50 000 map extract of Shamva (Zimbabwe).

1. What is the six figure grid reference of the spot height 980 south of Rutherdale near Mushambanyama River?
   A 453 814
   B 463 815
   C 813 465
   D 815 453

2. Find the bearing of the hospital in grid square 4787 from the foot bridge in grid square 4890.
   A 20°
   B 180°
   C 200°
   D 220°

3. What is the approximate distance of the wide tarred road from the south west edge of the map in grid square 4579 to the junction with a narrow tarred road in grid square 4785?
   A 7.0 kilometres
   B 7.3 kilometres
   C 8.0 kilometres
   D 8.3 kilometres

4. What is the direction of the dip tank in grid square 5180 from the Red Dragon?
   A North East
   B North West
   C South East
   D South West

5. What is the vertical interval of the map of Shamva?
   A 10 metres
   B 20 metres
   C 30 metres
   D 40 metres
6. According to the map evidence, what feature shows that there is cattle rearing in Shamva?
   A. Cultivated land
   B. Dams
   C. Dip Tanks
   D. Lakes

7. What is the predominant settlement pattern in Shamva?
   A. Clustered
   B. Dispersed
   C. Linear
   D. Random

8. Study the extract shown below.

   What is the general description of the relief for this part of the map extract above?
   A. Flat
   B. Gentle
   C. Hilly
   D. Plateau

9. The height of the peak of the hill in grid square 4989 is ...
   A. 940 metres.
   B. 980 metres.
   C. 1020 metres
   D. 1040 metres.
10  The most dominant vegetation of Shamva according to the map evidence is ...  
   A  mangrove.  
   B  medium bush.  
   C  plantation.  
   D  very dense bush.

11  What social services are offered between Eastings 45 and 49 and Northerings 86 and 88?  
   A  Hospital, Police Station, Post Office and Sports field.  
   B  Hospital, Police Station, Post Office and School.  
   C  Police Station, Post Office, School and Shopping mall.  
   D  Police Station, Post Office, School and Sports field.

12  What prominent features are found in grid square 4790?  
   A  Braided stream and confluence  
   B  Delta and flood plain  
   C  Lagoon and flood plain  
   D  Ox-bow lake and confluence

SECTION B: ELEMENTS OF PHYSICAL GEOGRAPHY

13  At which angle is the Earth's axis inclined to and is responsible for the change of seasons?  
   A  23½°  
   B  66½°  
   C  90°  
   D  360°

14  What would be the angle of elevation of the midday sun for a place on latitude 58°S on 22nd December?  
   A  24½°  
   B  32½°  
   C  55½°  
   D  67½°
15 Study the diagram below and answer the question that follows.

![Diagram](image)

The diagram above shows the formation of ...

A an asymmetrical fold.

B a simple fold.

C an overfold.

D an overthrust.

16 Study the diagram below and answer the question that follows.

![Diagram](image)

The feature marked **Y** is a ...

A deferred junction.

B deferred tributary.

C misfit.

D river capture.
17 Study the diagrams below and answer the question that follows.

The feature above represents the formation of a ...
A plateau by compression.
B plateau by tension.
C rift valley by compression.
D rift valley by tension.

18 Sediments deposited in the mouth of a river build a ...
A basin.
B delta.
C erosional plain.
D flood plain.

19 Mountains which are formed as a result of denudation are called ...
A fold mountains.
B horst mountains.
C residual mountains.
D volcanic mountains.

20 Which of the following is not an agent of weathering?
A Animals
B Air Pressure
C Plants
D Rainfall

21 Which one of the following is not a process of chemical weathering?
A Decomposition
B Frost action
C Oxidation
D Solution
22 Study the diagram below and answer the question that follows.

The volcanic feature X shown in the diagram above is a …
A caldera.
B crater.
C dyke.
D spine.

23 Apart from an anemometer, what else can be used to estimate wind speed?
A Aneroid barometer
B Beaufort scale
C Hygrometer
D Windrose

24 Study the table below which shows mean monthly temperatures for Verrkheyansk.

<table>
<thead>
<tr>
<th>Month</th>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</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>

What is the annual range of temperature for the above station?
A -34.5°C
B 34°C
C 50°C
D 65.5°C

25 Regarding the greenhouse effect, what role do the greenhouse gases play?
A Allow more heat from the sun to enter the atmosphere.
B Generate the additional heat through chemical reactions.
C Help humid air to hold more heat within the atmosphere.  www.zedpastpapers.com
D Trap heat that is reflected from the surface of the earth.

[Turnover]
26 What condition would lead to the dry and wet bulb thermometers recording the same reading?
   A  Air saturated with moisture
   B  Low moisture in the air
   C  Moderate moisture in the air
   D  No moisture in the air

27 Which clouds are associated with thunderstorm and heavy rains?
   A  Cirro cumulus
   B  Cumulonimbus
   C  Cumulus
   D  Stratus

28 Which of the following instruments used for measuring elements of weather is not placed in a Stevenson screen?
   A  Maximum thermometer
   B  Mercury barometer
   C  Minimum thermometer
   D  Wet and dry bulb thermometer

29 Study the diagram below.

What climatic condition is likely to occur at location A?
   A  Cloudy
   B  Cool
   C  Rainy
   D  Warm

30 An atmospheric region where there is intense heating with expanding air and ascending convection currents is known as the ...
   A  doldrums.
   B  high pressure zone.
   C  horse latitudes.
   D  westerlies.
31 Study the table below and answer the question that follows.

<table>
<thead>
<tr>
<th>Region</th>
<th>Annual Rainfall (mm)</th>
<th>Annual Range °C</th>
<th>Vegetation</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>2413</td>
<td>3</td>
<td>Evergreen</td>
</tr>
<tr>
<td>X</td>
<td>864</td>
<td>11</td>
<td>Deciduous</td>
</tr>
<tr>
<td>Y</td>
<td>635</td>
<td>8</td>
<td>Evergreen shrubs</td>
</tr>
<tr>
<td>Z</td>
<td>190</td>
<td>33</td>
<td>Xerophytic</td>
</tr>
</tbody>
</table>

From the above climatic table, identify the type of climate associated with each region.

W A Equatorial B Mediterranean C Savanna
X A Equatorial B Savanna C Mediterranean D Hot Deserts E Hot Deserts F Equatorial G Savanna H Mediterranean

32 Which of the following is a characteristic feature of vegetation in cool temperate regions?
A Broad leaves
B Bulbous roots
C Cone shaped trees
D Waxy leaves

SECTION C: ELEMENTS OF WORLD HUMAN GEOGRAPHY

33 Which of the following is the most common characteristic feature of developing countries?
A High literacy levels
B Low birth rate
C Low death rate
D Low life expectancy

34 Which one of the following countries is densely populated?
A Australia
B Brazil
C Java
D Tunisia

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35 Which one of the following is not the cause of dense population in the North West Europe?
A Early marriages.
B Improved medical facilities.
C Increased food production.
D Increased industrialisation.

36 A country can be described to be over populated when ...
A there is greater decline in death rate than birth rate.
B there are more resources to sustain the population.
C there is a higher improvement in both medical and educational services.
D the area has a higher population than the resources can support.

37 Which one of the following types of farming is not commonly practised in the tropics?
A Mechanised cereal cultivation
B Oriental agriculture
C Plantation agriculture
D Sedentary cultivation

38 Which one of the following crops can be used as a fuel, stock feed and alcoholic drink?
A Barley
B Maize
C Sugarcane
D Tea

39 What is meant by terracing in agriculture?
A Allowing a field to rest to enable natural processes to restore nutrients.
B Cutting of steep slopes to create flat land conditions for crop cultivation.
C Making lines in the ground for planting and allowing water to flow.
D Planting of crops on a mountainous area.

40 Which of the following is the least applicable to plantation agriculture in the world?
A Crops raised in plantations are mainly for export.
B The plantations are entirely owned by foreigners.
C Plantations are much larger in acreage.
D Average yields from plantations are higher.

41 What chemical do farmers apply to crops for quick maturity as well as strengthen root formation?
A Calcium
B Nitrate
C Phosphate
D Potash
42 What would be the most suitable sequence of farming practices when one moves from the city centre to the outskirts?
A  Dairying – Market Gardening – Ranching – Mixed Farming
B  Dairying – Ranching – Market Gardening – Mixed Farming
C  Market Gardening – Dairying – Mixed Farming – Ranching
D  Market Gardening – Mixed Farming – Dairying – Ranching

43 Why is solar energy less used in equatorial regions despite the sun mostly being overhead throughout the year? Due to the presence of ...
A  heavy rains
B  high humidity
C  much cloud cover
D  tall trees

44 At a newly discovered oil well, oil is usually brought to the surface by ...
A  drilling.
B  pipeline.
C  pressure.
D  pumping.

45 Which one of the following continents has the best developed water power potential?
A  Africa
B  Asia
C  Australia
D  South America

46 Over two-thirds of the world's electricity supply comes from ...
A  geothermal plants.
B  hydro-electric plants.
C  nuclear plants.
D  thermal plants.

47 Which one of the following is not the use of coal? A fuel in ...
A  blast furnace.
B  jet engines.
C  steam engines.
D  brewing industry.

48 Which of the following types of energy is referred to as 'white coal'?
A  Geothermal
B  Hydro-electricity
C  Natural gas
D  Petroleum
49. The leading coal producing country in Africa is ...
   A. Nigeria.
   B. South Africa.
   C. Zambia.
   D. Zimbabwe.

50. Which one of the following minerals is the most abundant?
   A. Coal
   B. Limestone
   C. Iron Ore
   D. Cobalt
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