

EXAMINATIONS COUNCIL OF ZAMBIA

Examination for School Certificate Ordinary Level

Geography

2218/1

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.**

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 Rutherland 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

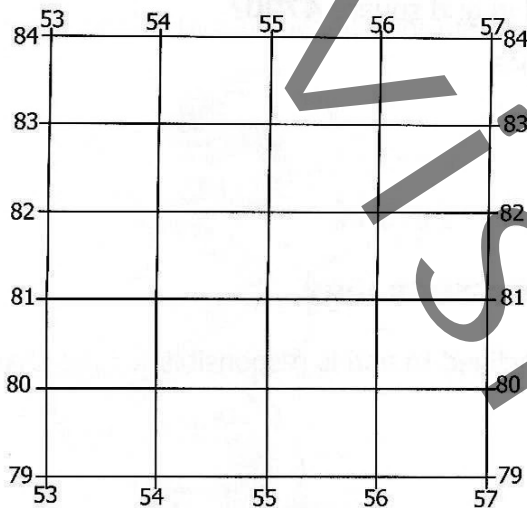
6 According to the map evidence, what feature shows that there is cattle rearing in Shamva?

- 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 ...

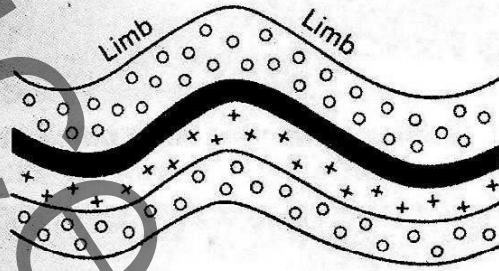
- A 940 metres.
- B 980 metres.
- C 1 020 metres
- D 1 040 metres.

- 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 Northings **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

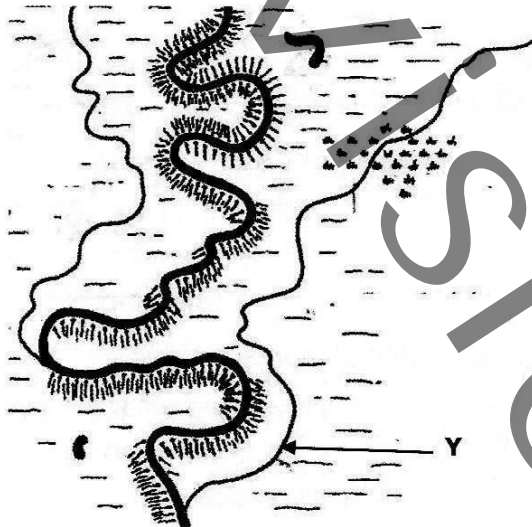
- 13** At which angle is the Earth's axis inclined to and is responsible for the change of seasons?
- A** $23\frac{1}{2}^{\circ}$
 - B** $66\frac{1}{2}^{\circ}$
 - C** 90°
 - D** 360°
- 14** What would be the angle of elevation of the midday sun for a place on latitude 58°S on 22nd December?
- A** $24\frac{1}{2}^{\circ}$
 - B** $32\frac{1}{2}^{\circ}$
 - C** $55\frac{1}{2}^{\circ}$
 - D** $67\frac{1}{2}^{\circ}$

- 15 Study the diagram below and answer the question that follows.



The diagram above shows the formation of ...

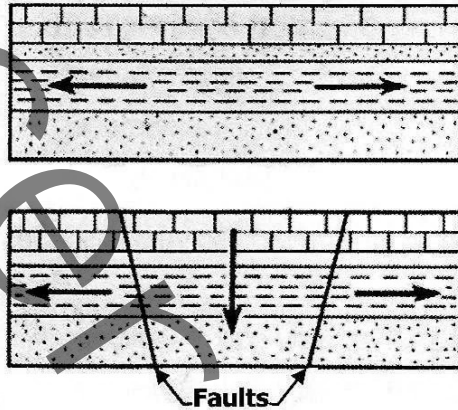
- A an asymmetrical fold.
 - B a simple fold.
 - C an overfold.
 - D an overthrust.
- 16 Study the diagram below and answer the question that follows.



The feature marked Y is a ...

- A deferred junction.
- B deferred tributary.
- C misfit.
- D river capture.

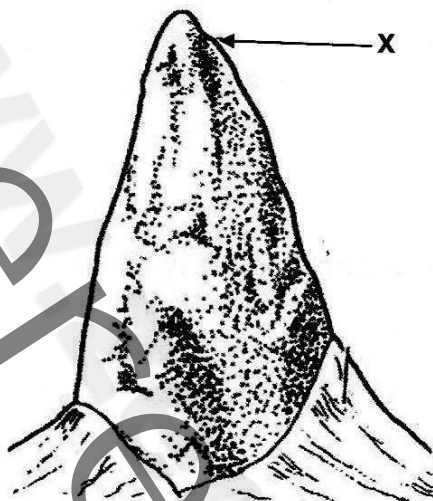
- 17 Study the diagrams below and answer the question that follows.



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 ...

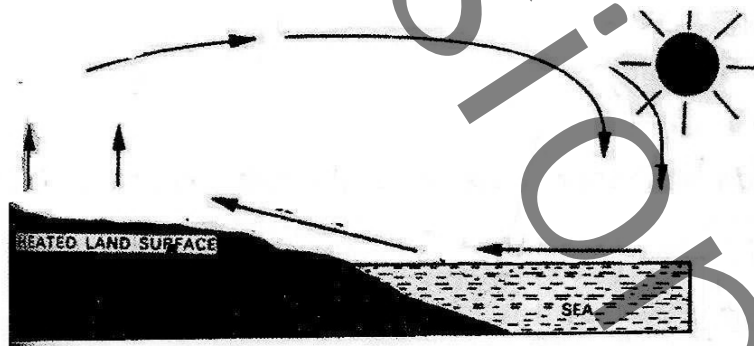
- A caldera.
 - B crater.
 - C dyke.
 - D spine.
- 23 Apart from an anemometer, what else can be used to estimate wind speed?
- A Aneroid barometer
 - B Beaufort scale
 - C Hygrometer
 - D Windrose
- 24 Study the table below which shows mean monthly temperatures for Verrkheyansk.

Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Temperature °C	−50	−40	−30	−13	2	14	15.5	10	1	−14	−38	−45

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.
 - D Trap heat that is reflected from the surface of the earth.

- 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.

Region	Annual Rainfall (mm)	Annual Range °C	Vegetation
W	2413	3	Evergreen
X	864	11	Deciduous
Y	635	8	Evergreen shrubs
Z	190	33	Xerophytic

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

- | | W | X | Y | Z |
|----------|---------------|---------------|---------------|---------------|
| A | Equatorial | Mediterranean | Hot Deserts | Savanna |
| B | Equatorial | Savanna | Mediterranean | Hot Deserts |
| C | Mediterranean | Savanna | Hot Deserts | Equatorial |
| D | Savanna | Hot Deserts | Equatorial | 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

- 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