

# EXAMINATIONS COUNCIL OF ZAMBIA

Examination for General Certificate of Education Ordinary Level

## Geography

2218/1

### Paper 1

Wednesday

26 JULY 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

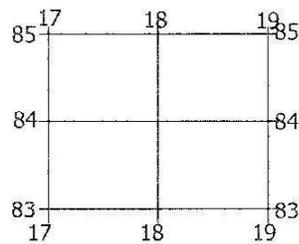
- 1 Each correct answer will score **one** mark. A mark will **not** be deducted for any wrong answer.
- 2 **Cell phones and calculators are not allowed in the examination room.**

**SECTION A: 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 Chishwingo ruins national monument in the South Western part of the map?
  - A 162 777
  - B 167 772
  - C 772 167
  - D 777 162
  
- 2 Which of the following is found in grid square **1680**?
  - A Ferry
  - B Hospital
  - C School
  - D Tank
  
- 3 What is the bearing of the trigonometrical station in grid square **2088** from the spot height in grid square **1585**?
  - A 45°
  - B 60°
  - C 235°
  - D 300°
  
- 4 What is the distance along the road in grid square **1780** to the dam in grid square **2084**?
  - A 5200 metres
  - B 5400 metres
  - C 6100 metres
  - D 6400 metres
  
- 5 What is the direction of the Wayerera school in grid square **1878** from the hospital in grid square **2287**?
  - A North East
  - B North West
  - C South East
  - D South West
  
- 6 The settlement pattern in between Easting **20** and **24** and Northings **77** and **79** is ...
  - A dispersed.
  - B linear.
  - C nuclear.
  - D random.

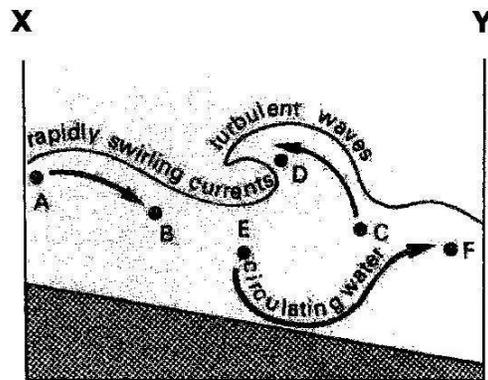
- 7 What economic activity has greatly contributed to the settlement in the area shown in the map extract below?



- A Agriculture  
 B Mining  
 C Railway transport  
 D Road transport
- 8 The dominant vegetation type of Bindura is ...  
 A dense bush.  
 B medium bush.  
 C open grassland.  
 D sparse bush.
- 9 What is the vertical interval of the map of Bindura?  
 A 15 metres  
 B 20 metres  
 C 25 metres  
 D 30 metres
- 10 In which direction does the Mazowe River flow?  
 A North East  
 B North West  
 C South East  
 D South West
- 11 What is the average of the land gradient between the spot height in grid square **1585** and the Trigonometrical station in grid square **2088**?  
 A 1 : 10  
 B 1 : 29  
 C 1 : 34  
 D 1 : 44
- 12 What man-made feature is found in grid square **2289**?  
 A Dam  
 B Dip tank  
 C Swimming pool  
 D Water tank

**SECTION B: ELEMENTS OF PHYSICAL GEOGRAPHY**

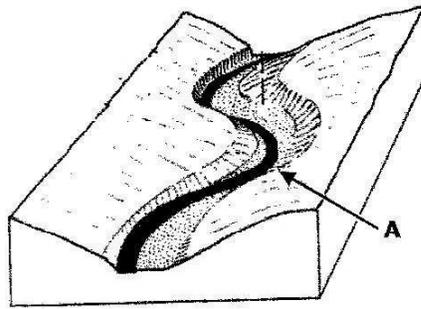
- 13** What is the approximate straight line distance between Cape Town 33°S and Tropic of Capricorn 23½°S?
- A** 1054.5km
  - B** 2608.5km
  - C** 3663.0km
  - D** 6216.0km
- 14** Which among these planets completes its orbit in about three months?
- A** Earth
  - B** Mars
  - C** Mercury
  - D** Venus
- 15** Weathering takes place in each of the following ways **except** ...
- A** action of plants and animals.
  - B** alternate wetting and drying.
  - C** dissolving of soluble minerals by rain water.
  - D** removal of top soil by running water.
- 16** Study the diagram below and answer the question that follows.



The above diagram shows a river in its ...

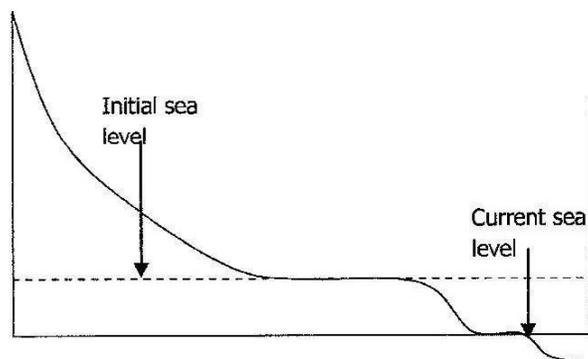
- A** lower course.
- B** middle course.
- C** upper course.
- D** vertical course.

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



What type of erosion is taking place at **A** in the feature above?

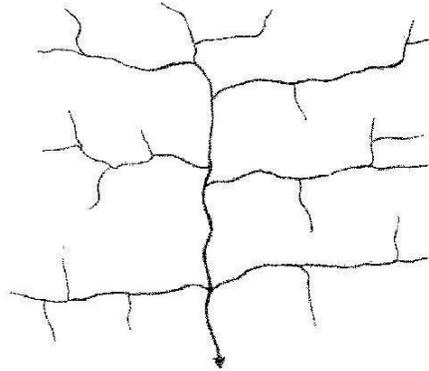
- A Lateral corrasion
  - B Lateral corrasion
  - C Vertical corrasion
  - D Vertical corrasion
- 18 Which one of the following types of weathering does **not** involve chemical processes?
- A Biological
  - B Exfoliation
  - C Hydrolysis
  - D Oxidation
- 19 Study the diagram below that shows the cross section of a river profile and answer the question that follows.



What does the diagram illustrate?

- A Formation of rapids
- B River flooding
- C River rejuvenation
- D River terracing

- 20** Study the diagram below which shows a drainage pattern.

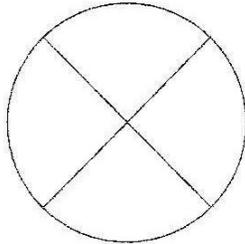


- What features would lead to the formation of such a pattern?
- A** Alternate clay and sand soils dipping in the same direction.
  - B** Alternate hard and soft rocks dipping in the same direction.
  - C** Flat land with alternate hard and soft rocks.
  - D** Rock with some resistance to erosion.
- 21** Which of the following agents of denudation cause mass wasting?
- A** Gentle slope
  - B** Gravitational force
  - C** Mass of the material
  - D** Rain water
- 22** What feature is formed by pebbles in a fast flowing river?
- A** Inter-locking spurs
  - B** Pot-holes
  - C** Steep gradient
  - D** Waterfalls
- 23** Weather refers to the state of the ...
- A** atmosphere.
  - B** ionosphere.
  - C** troposphere.
  - D** stratosphere.
- 24** The difference between highest mean monthly temperature and lowest mean monthly temperature is called the ...
- A** annual temperature range.
  - B** mean annual temperature.
  - C** mean monthly temperature.
  - D** monthly temperature range.

25 The humidity of the air depends on ...

- A clouds.
- B rain.
- C temperature.
- D water vapour.

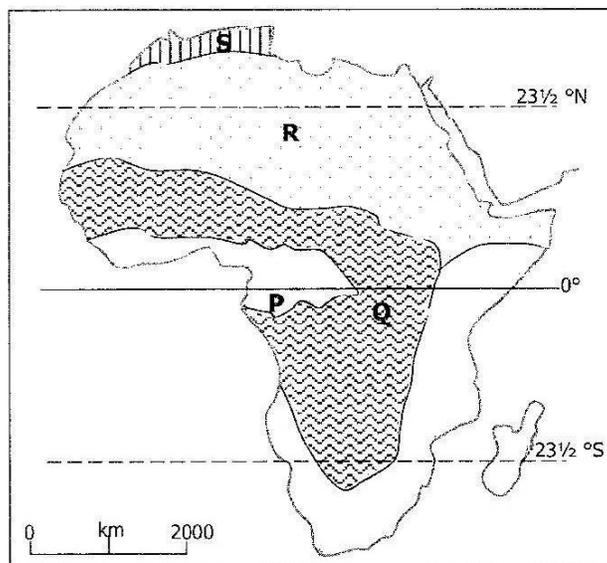
26 Study the diagram below and answer the question that follows.



The symbol above shows ...

- A complete cloud cover.
- B seven-eighths cover.
- C three-quarter cover.
- D sky obscured.

27 Study the map of Africa and answer the question that follows.

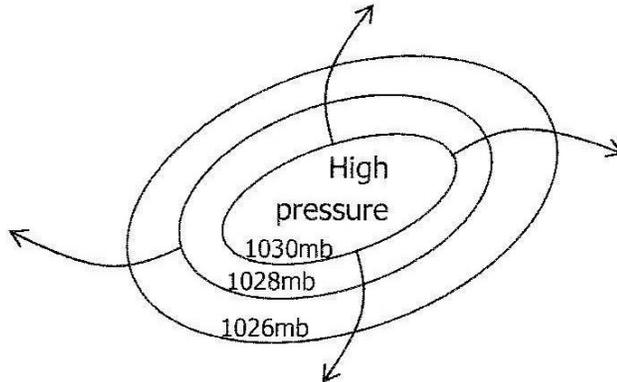


Which one of the following places **P**, **Q**, **R** and **S** experiences westerly winds in winter and offshore winds in summer?

- A P
- B Q
- C R
- D S

- 28 The Tropical Continental Savanna type of climate is best described as having ...
- A winter rain and summer drought.
  - B summer rain and winter drought.
  - C mud, hot, wet autumn and cool dry spring.
  - D much rain all year round.

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

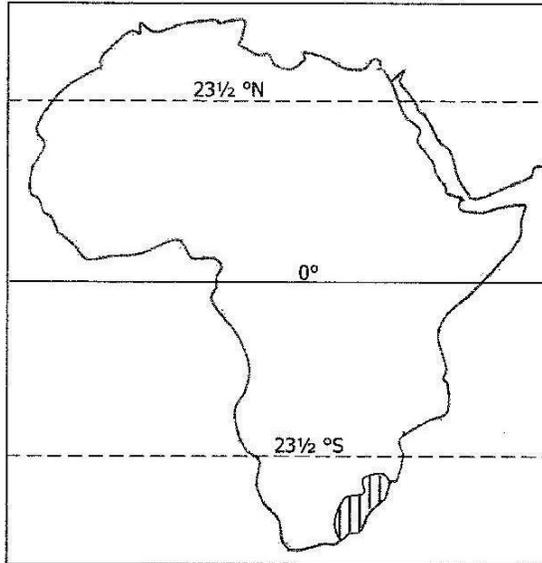


- The diagram shows...
- A a cyclone in the Northern hemisphere.
  - B a cyclone in the Southern hemisphere.
  - C an anticyclone in the Northern hemisphere.
  - D an anticyclone in the Southern hemisphere.
- 30 One of the main features of the Mediterranean climate is the ...
- A nature of local winds.
  - B prevailing westerly winds in winter.
  - C annual temperature range of less than 10°C.
  - D influence of the ocean currents.
- 31 Which one of the following climatic regions is associated with open evergreen woodland?
- A Equatorial
  - B Mediterranean
  - C Tropical Monsoon
  - D Savanna
- 32 Cacti are typical plants of ...
- A hot desert.
  - B hot wet equatorial.
  - C Mediterranean.
  - D tropical continental.

**SECTION C: ELEMENTS OF WORLD HUMAN GEOGRAPHY**

- 33** Which one of the following African countries has the highest population?
- A** Democratic Republic of Congo
  - B** Egypt
  - C** Ethiopia
  - D** South Africa
- 34** The average number of children that would be born to each woman during her reproductive period is known as ...
- A** birth rate.
  - B** fertility rate.
  - C** life expectancy.
  - D** mortality.
- 35** Which one of the following statements is applicable to the third world countries?
- A** Experiences least life expectancy.
  - B** Generally records lowest birth-rate.
  - C** Normally maintains a higher standard of living.
  - D** Usually exports large quantities of manufactured goods.
- 36** The growth of population creates an urgent need for ...
- A** commercial activities.
  - B** extensive agriculture.
  - C** housing.
  - D** industrialisation.
- 37** Which one of the following crops would best suit drought conditions of most parts of Africa?
- A** Maize
  - B** Rice
  - C** Sorghum
  - D** Wheat
- 38** In an area of extensive livestock farming, under what conditions are cattle likely to be replaced by sheep?
- A** When markets become closer.
  - B** When transport becomes better.
  - C** When land becomes less drained.
  - D** When pasture becomes sparser because of less rainfall.

39 Study the map of Africa below.



Which one of the following crops is mainly produced in the shaded area?

- A Maize
  - B Rice
  - C Sugarcane
  - D Wheat
- 40 Which among these crops requires heavy annual rainfall of at least 1,270mm, mean temperature of 18°C to 27°C, a warm, dry period for harvesting and loam or clay soil?
- A Maize
  - B Rice
  - C Tea
  - D Wheat
- 41 Which among these countries is the highest producer of tea?
- A Bangladesh
  - B India
  - C Indonesia
  - D Sri-Lanka
- 42 Over cropping is when ...
- A a high yield of the same crop year after year is produced.
  - B the same crop is planted on the same land year after year.
  - C too many crops are grown on the same land year after year.
  - D too many domestic animals are feeding on the same land year after year.
- 43 In modern industries, the use of coal as a fuel has declined sharply mainly because ...
- A it does not yield any industrial by-product.
  - B it is a very expensive fuel.
  - C it is not easily available.
  - D other alternative fuels are more efficient.

- 44 Oil tankers today are increasing in size because ...
- A transportation costs per unit oil is low.
  - B there is no risk of fire.
  - C they can carry other cargo.
  - D they sail the deep seas.
- 45 Despite having a vast potential water power resource, Africa's developed hydro-electric power is about 1% of the world's total. Which one of the following is the reason for this underdevelopment?
- A Lack of capital.
  - B Lack of political will.
  - C Lack of water resources.
  - D Rivers dry up during the dry season.
- 46 Which of the following types of coal burns with great heat and little smoke?
- A Anthracite
  - B Bituminous
  - C Lignite
  - D Peat
- 47 The hydro-electricity power station industry heavily depends on the following for its successful operation **except** ...
- A large flat land.
  - B large demand of electricity.
  - C steep gradient.
  - D sufficient and constant volume of water.
- 48 Which one of the following minerals is not a source of energy?
- A Coal
  - B Iron
  - C Petroleum
  - D Uranium
- 49 The major world producer of coal is ...
- A Germany.
  - B South Africa.
  - C United Kingdom.
  - D Sweden.
- 50 When the coal seam is found deep under the sea, the method of mining used is ...
- A marine mining.
  - B open cast mining.
  - C strip mining.
  - D shaft mining.

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