

**EXAMINATIONS COUNCIL OF ZAMBIA**

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

**GEOGRAPHY**

**2218/1**

**PAPER 1**

**Tuesday**

**10 NOVEMBER 2009**

**1 hour 30 minutes**

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

**Additional materials:**

**Multiple Choice answer sheet**

**Soft pencil (type HB is recommended)**

**TIME 1 hour 30 minutes**

**INSTRUCTIONS TO CANDIDATES**

**Do not open this booklet until you are told to do so.**

Write your name, centre number and examination number on the answer sheet in the spaces provided unless this has already been done for you.

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 record your choice in clear pencil on the separate answer sheet.

**Read very carefully the instructions on the answer sheet.**

**INFORMATION FOR CANDIDATES**

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

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

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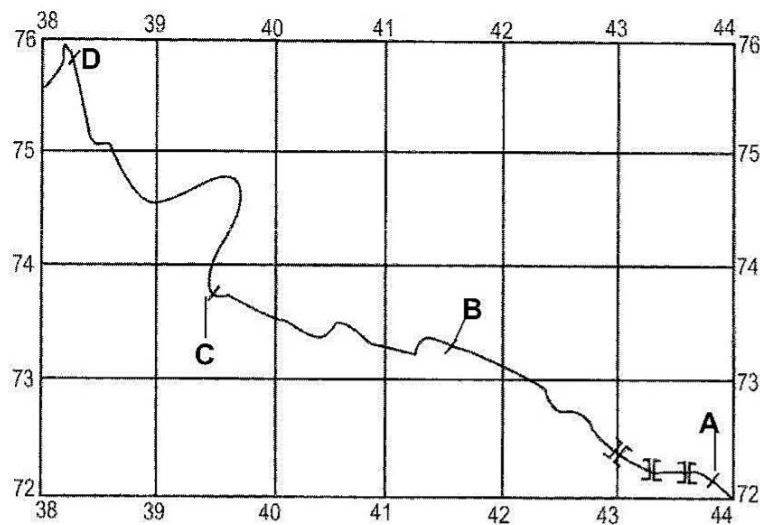
**This question paper consists of 16 printed pages.**

**Section A: Mapwork and Basic Techniques**

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

- 1 At what longitude and latitude is settlement Wynhill, found in grid square 3872, approximately located?
  - A  $30^{\circ} 34'E$  and  $16^{\circ} 25'S$
  - B  $30^{\circ} 34'E$  and  $17^{\circ} 25'S$
  - C  $30^{\circ} 34'S$  and  $16^{\circ} 25'E$
  - D  $38^{\circ} 05'E$  and  $72^{\circ} 08'S$
- 2 Which one of the following is **not** found in grid square 3667?
  - A Borehole
  - B Plantation
  - C Reservoir
  - D Settlement
- 3 According to map evidence, which one of the following **cannot** be used as evidence that there is mining taking place?
  - A Mine dump
  - B Mining trench
  - C Quarry
  - D Smelting plant
- 4 What is the general direction of river flow in the area west of the railway?
  - A North to South
  - B Northwest to Southeast
  - C South to North
  - D Southeast to Northwest
- 5 In which grid square is there the most rugged relief?
  - A 4266
  - B 4367
  - C 4569
  - D 4571

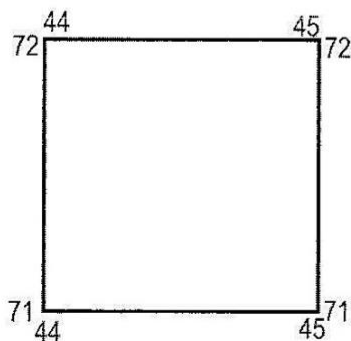
- 6 Study part of the map extract below which shows the position of a river. Which one of the points **A**, **B**, **C** or **D** lies at the highest position?



- 7 Study the factors below.
- (i) Presence of minerals
  - (ii) Relatively flat land
  - (iii) Very dense bush
  - (iv) Rich agricultural land on the western side

According to map evidence, which combination of factors above determined the course of both the railway and the wide tarred road?

- A** (i), (ii) and (iii)
  - B** (i), (ii) and (iv)
  - C** (i), (iii) and (iv)
  - D** (ii), (iii) and (iv)
- 8 Study the diagram showing part of the map extract.



Which one of the following landforms is found in the grid square?

- A** Cliff
- B** Gorge
- C** Mountain peak
- D** Saddle

- 9 According to map evidence, why is there much denser bush east of the railway line than west of it?

**West**

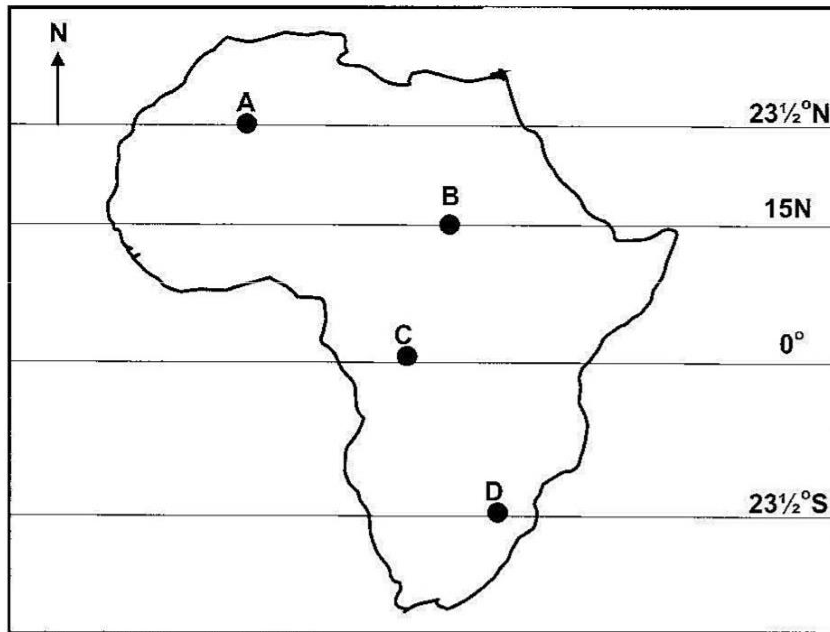
**East**

- |  |  |
|--|--|
| <b>A</b> Cultivation led to tree clearance | <b>Mountain discourage agriculture</b> |
| <b>B</b> Trees cut for firewood            | <b>Area has been reafforested</b>      |
| <b>C</b> Receives little rainfall          | <b>Receives high rainfall</b>          |
| <b>D</b> Used for mining                   | <b>Conserved forest</b>                |
- 10 What is the distance of the wide tarred road in the south western part of the map extract?
- A** 5.6km  
**B** 8.4km  
**C** 8.6km  
**D** 8.8km
- 11 In which of the following grid squares do most of the employed people live?
- A** 3667  
**B** 3969  
**C** 4475  
**D** 4476
- 12 All of the following are evident at Kildonan except ...
- A** gold mining.  
**B** land destruction.  
**C** mine prospecting.  
**D** water storage.

**Section B: Elements of Physical Geography**

- 13 From which of the following can time be calculated?
- A** 0°S/N  
**B** 30°N  
**C** 40°S  
**D** 50°E

- 14 Study the map of Africa below.

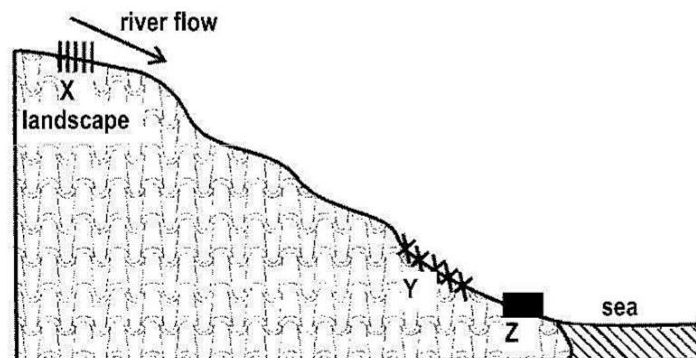


Which one of the places **A**, **B**, **C** or **D** experiences the shortest day light on 30<sup>th</sup> May?

- 15 Which one of the following causes the most chemical weathering?

- A Biotic weathering
- B Frost action
- C Rain water
- D Temperature variations

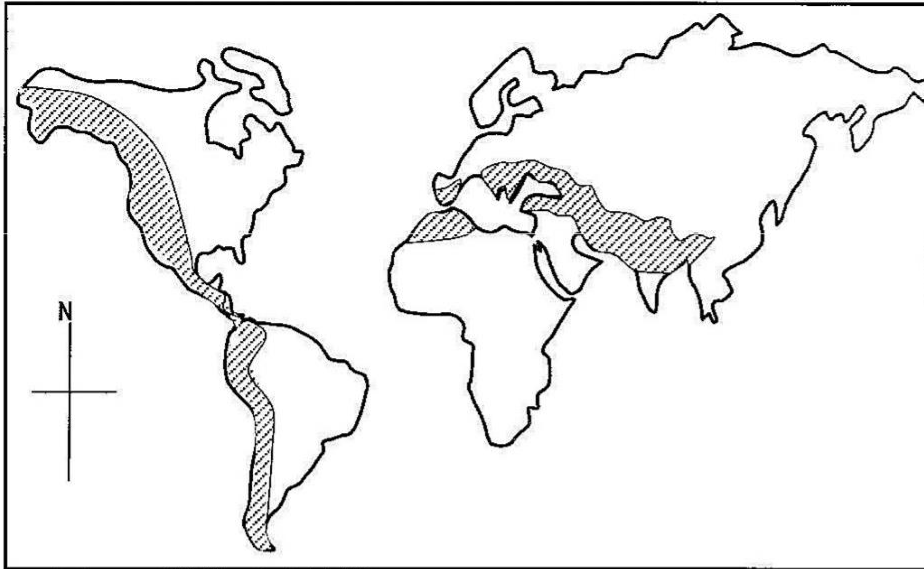
- 16 Study the diagram below showing a river profile.



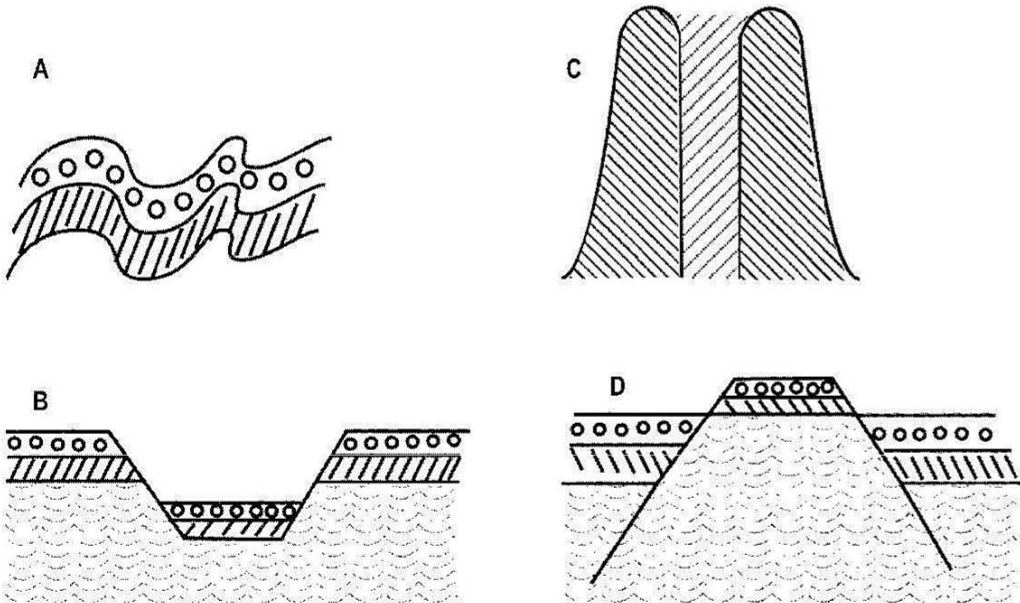
Which one of the following are predominant at **X**, **Y** and **Z**?

- |   | <b>X</b> | <b>Y</b> | <b>Z</b> |
|---|----------|----------|----------|
| A | Clay     | Sand     | Potholes |
| B | Potholes | Sand     | Clay     |
| C | Potholes | Clay     | Sand     |
| D | Sand     | Potholes | Clay     |

17 Study the map below.



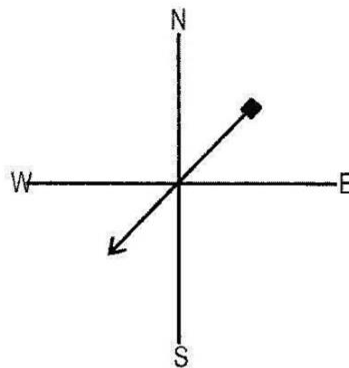
What feature **A**, **B**, **C** or **D** shown below shows the landform found in the shaded area?



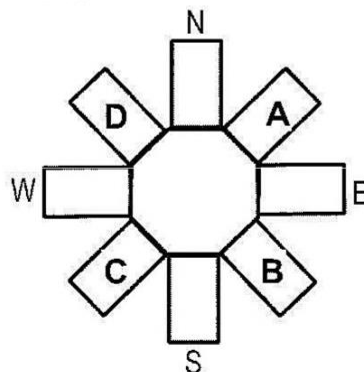
18 “There were collapsed roads and bridges, raging fires, shattered buildings, landslides and roads criss-crossed by gapping cracks. The death toll stood at 300 people” What caused the disaster quoted above?

- A** Earthquake
- B** Flood
- C** Tornado
- D** Tsunami

- 19 Why was chemical weathering faster in the past?
- A Acid rainfalls were more common than today.
  - B Climates were warmer than today.
  - C More sedimentary rocks existed than today.
  - D Rocks were softer than today.
- 20 Which one of the following provides evidence that there is very hot rock near the surface?
- A Existence of a crater.
  - B Existence of a geyser.
  - C Presence of horst.
  - D Presence of a lava plateau.
- 21 Study the wind vane below as seen by a pupil from beneath the pole.

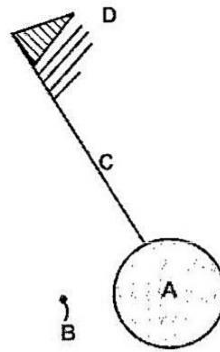


Where, on the wind rose, did the pupil record the wind direction?



- 22 Which one of the following should **not** be placed in the Stevenson's Screen?
- A Anemometer
  - B Magnet
  - C Hygrometer
  - D Six's thermometer

23 Study the diagram below showing weather information for station Z.

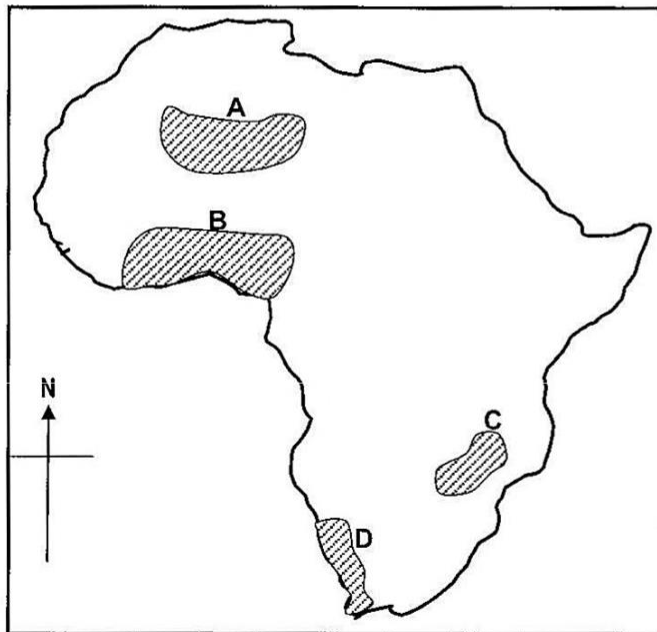


Which of **A**, **B**, **C** or **D** depended on the use of the wind vane to be measured?

24 Depletion of ozone layer cannot be mimised by increased dependence use of ....

- A** coal in industries.
- B** hydro-electricity.
- C** geo-thermal power.
- D** tidal power.

25 Study the map of Africa below.



Which one of the shaded areas **A**, **B**, **C** or **D** is characterized by dry warm summers?

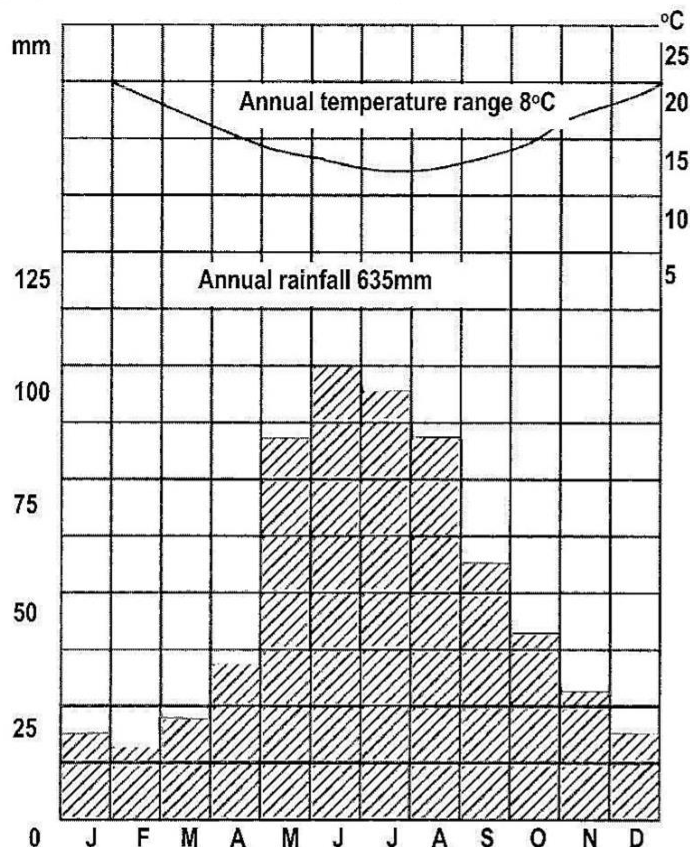
26 Which one of the following is **not** correct regarding the siting of a rain gauge?

- A** It should be firmly fastened.
- B** It should be placed in an open space.
- C** It should be sheltered to prevent excessive evaporation.
- D** The funnel should be at least 30 centimetres above the ground.



- 27 Equatorial and Savanna climates are similar in that both ...
- A have high rainfall only in summer.
  - B have high temperature all year round.
  - C receive convectional rainfall.
  - D have small temperature range of below 3°C.

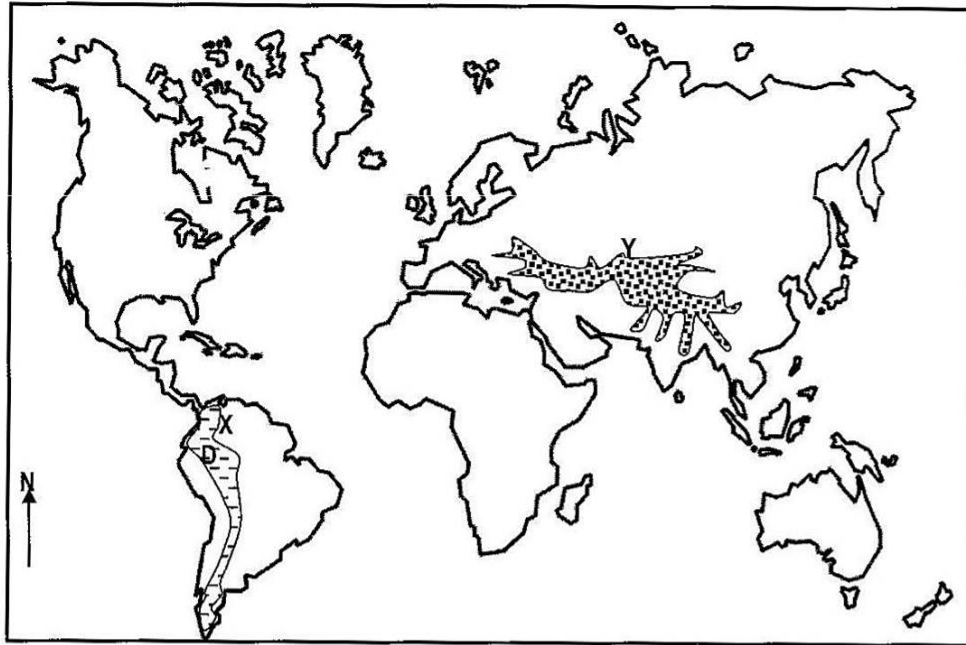
Study the climatic graph below and then answer questions 28 and 29.



- 28 What type of climate is represented by the graph?
- A Equatorial
  - B Mediterranean
  - C Savanna
  - D Temperate Continental
- 29 How do plants found in the climatic region named in question 28 adapt to climatic conditions of the region?
- A Get rid of excess moisture
  - B Withstand low temperature
  - C Withstand prolonged drought
  - D Withstand extreme temperature
- 30 Which one of the following is **not** a characteristic of the equatorial vegetation?
- A Trees compete for light
  - B Trees compete for water
  - C Trees have thin barks
  - D Presence of parasitic plants on some trees

### Section C: Elements of World Human Geography

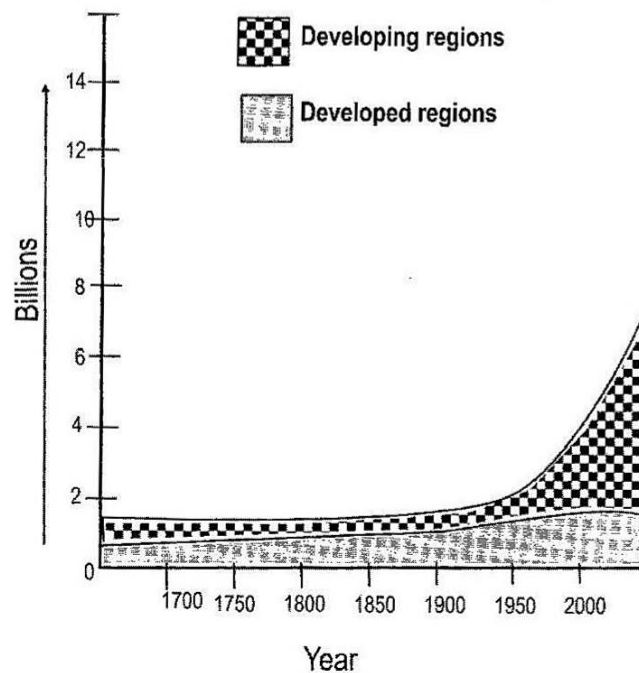
31 Study the map below.



The main reason why areas labelled X and Y are sparsely populated is that they ...

- A are dry and infertile.
- B are mountainous.
- C have thick forests.
- D have very large ranches.

32 Study the figure below which shows world population growth pattern.



Which one of the following best explains the sharper increase in population in developing regions between 1950 and 2000?

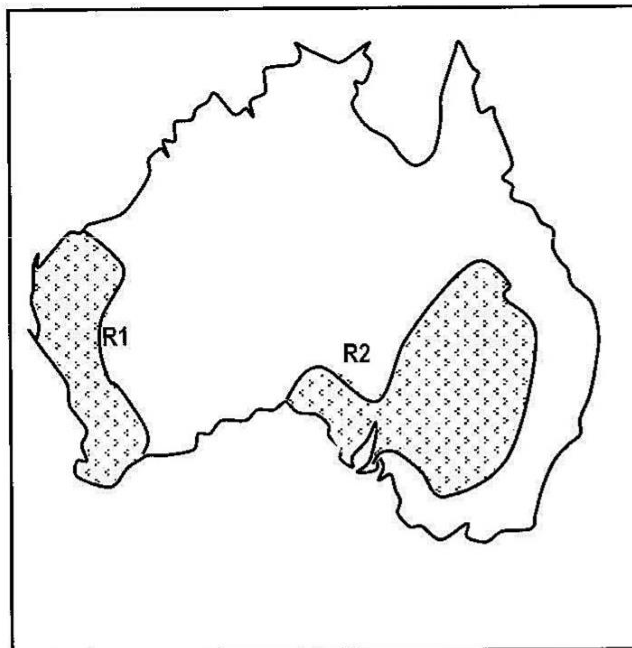
- A Existence of policies on early marriages.  
 B Family values and improvements in medical facilities.  
 C High prevalence of births of twins and triplets.  
 D Use of contraceptives by many families.
- 33 Which one of the following countries has the largest population?  
 A Bangladeshi  
 B China  
 C India  
 D Pakistan
- 34 Which one of the following terms refers to the permanent movement of professionals out of a country?  
 A Brain drain  
 B Emigration  
 C Immigration  
 D Migration
- 35 Which one of the following is **not** a requirement of intensive rice cultivation in South East Asia?  
 A Flat land  
 B Many workers  
 C Plenty of rainfall  
 D Quick transport
- 36 The table below shows the uses of a certain crop.

Chemical uses	Home uses	Other products/uses
<ul style="list-style-type: none"> <li>• Acids</li> <li>• Drugs</li> <li>• Medicines</li> </ul>	<ul style="list-style-type: none"> <li>• Baking</li> <li>• Cooking</li> <li>• Sweetener</li> <li>• Syrup</li> </ul>	<ul style="list-style-type: none"> <li>• Pharmaceuticals</li> <li>• Stockfeed</li> <li>• Fuel</li> <li>• Wax</li> <li>• Paper</li> </ul>

Which crop is this?

- A Cotton  
 B Maize  
 C Sugar cane  
 D Wheat

37 Study the map of Australia below.



Which one of the following shows the major type of farming found in the areas labelled **R1** and **R2**?

- A Cattle rearing
- B Rice cultivation
- C Sheep farming
- D Wheat farming

38 Which one of the following is **not** a way of controlling the spread of livestock diseases?

- A Encouraging free range grazing.
- B Killing of all affected livestock.
- C Mounting control points along transit routes.
- D Regular vaccination of livestock

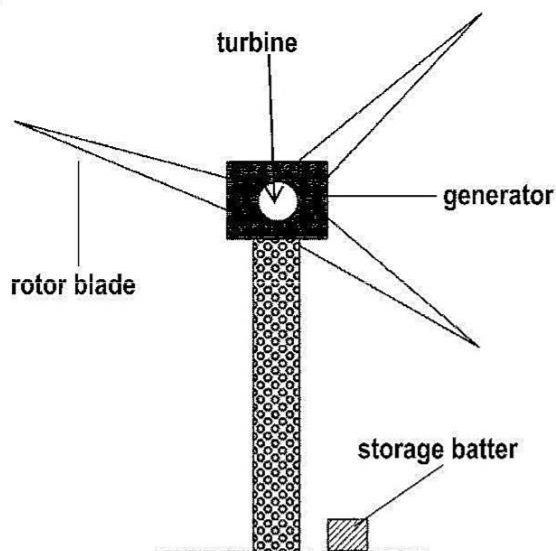
39 Which one of the following types of farming would be found closest to the Central Business District (CBD)?

- A Beef ranching
- B Dairy farming
- C Cotton Production
- D Poultry farming

40 Which type of farming is largely associated with the production of sugar cane, rubber and coffee?

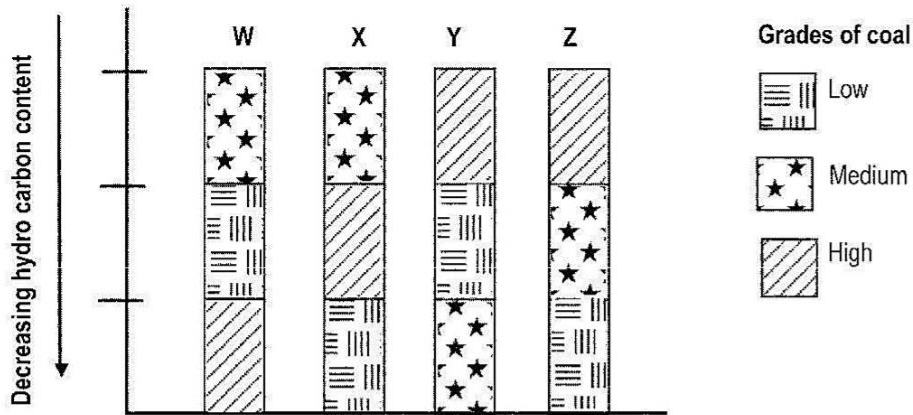
- A Intensive farming
- B Plantation farming
- C Semi-permanent cultivation
- D Shifting cultivation

- 41 Study the diagram below.



- The best location for this power plant is ...
- A forested areas.
  - B lowland areas.
  - C mountain valleys.
  - D upland areas.
- 42 Which one of the following is a non-renewable source of power?
- A Geothermal
  - B Gas
  - C Wind
  - D Tidal
- 43 Which one of the following is regarded as power of "yesterday"?
- A Coal
  - B Natural gas
  - C Petroleum
  - D Solar energy
- 44 Which one of the following sources of fuel and power is **not** a fossil?
- A Coal
  - B Geothermal
  - C Natural gas
  - D Petroleum
- 45 Which one of the following iron and steel centres has never been associated with the production of coal, limestone or iron ore?
- A Birmingham
  - B Cleaveland
  - C Pittsburg
  - D Youngstown

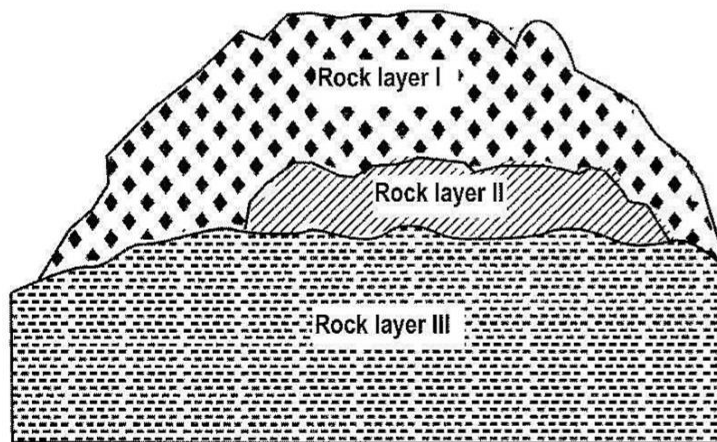
44 Study the diagram below which shows types of coal.



Which bar graph shows the correct order of the types of coal?

- A W
- B X
- C Y
- D Z

47 The diagram below shows the occurrence of a rock rich in iron ore.

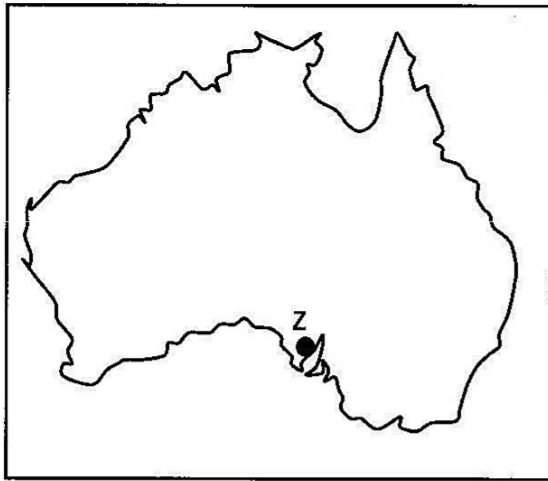


Having discovered that rock layer II was rich in magnetite, the prospector recommended that an open cast method of mining be used.

What would be the greatest challenge of using this method to extract the iron ore?

- A Possibility of land slides
- B Possibilities of rock falls
- C Possibilities of volcanic eruption
- D Removal of the overburden

**48** Study the map of Australia below.



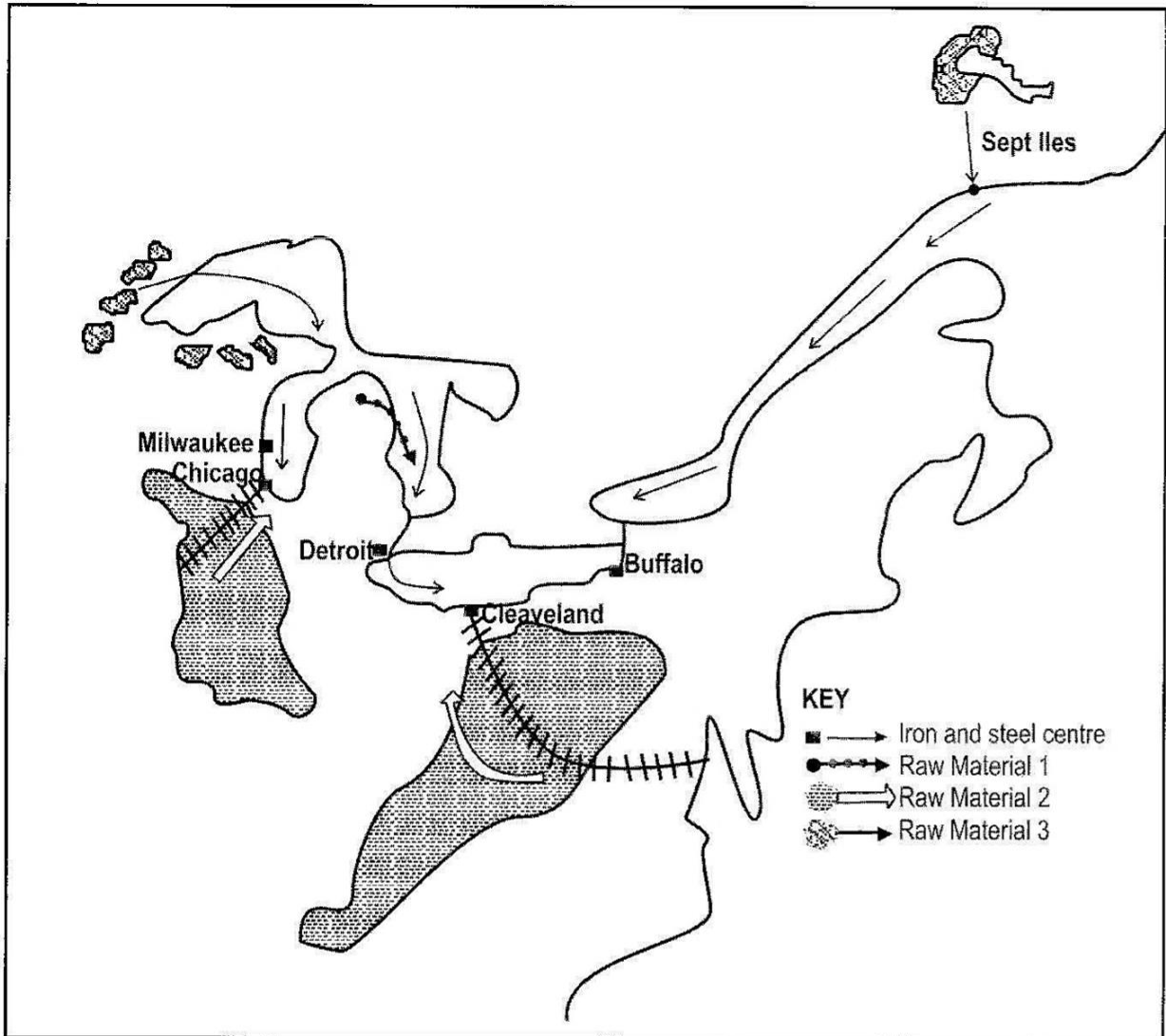
What local raw material attracted the iron and steel plant to the site marked **Z**?

- A** Coal
- B** Chrome
- C** Iron ore
- D** Limestone

**49** What raw material is used in the second stage of iron and steel manufacturing?

- A** Alloy steel
- B** Iron ore
- C** Pig iron
- D** Steel scrap

50 Study the diagram below.



Which factor, apart from those shown on the map, attracted the location of the integrated iron and steel centres along the Great Lakes?

- A Availability of coal.
- B Availability of iron ore.
- C Presence of limestone.
- D Presence of a market.