

**EXAMINATIONS COUNCIL OF ZAMBIA**

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

**GEOGRAPHY**

**2218/1**

**PAPER 1**

Tuesday

9 NOVEMBER 2010

1 hour 30 minutes

1:25 000 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 booklet 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.

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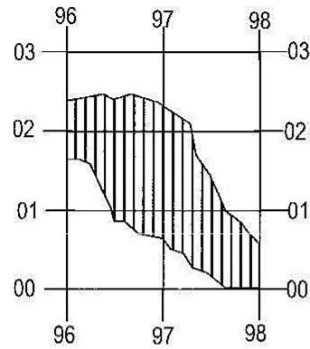
This question paper consists of 14 printed pages.

**Section A: Mapwork and Basic Techniques**

**Questions 1 to 12 are based on the 1:25 000 map extract of Mauritius**

- 1 What is the six figure grid reference of the Trigometrical station at Moneron Hill?  
**A** 029987  
**B** 029993  
**C** 986029  
**D** 993987
- 2 What is the direction of the Post Office near Bell village in grid square 9503 from the Ruin in grid square 9901?  
**A** North East  
**B** North West  
**C** South East  
**D** South West
- 3 What is the bearing of the pylon in grid square 9701 from the Mill in grid square 9600?  
**A** 53°  
**B** 135°  
**C** 225°  
**D** 315°
- 4 The approximate height of the Minor Trigonometrical station in grid square 9802 is ... metres.  
**A** 140  
**B** 152  
**C** 160  
**D** 165
- 5 What is the distance of the motorway from the junction of the motorway and the main road 'A' in grid square 9503 to the bridge in grid square 9705?  
**A** 2500 metres  
**B** 2900 metres  
**C** 3300 metres  
**D** 4000 metres
- 6 The physical feature in the North-East corner of grid square 9700 is a ...  
**A** cliff.  
**B** meander.  
**C** plain.  
**D** quarry.
- 7 According to map evidence, which one of the following facilities is **not** offered in grid square 9703?  
**A** Church  
**B** Hospital  
**C** Market  
**D** School

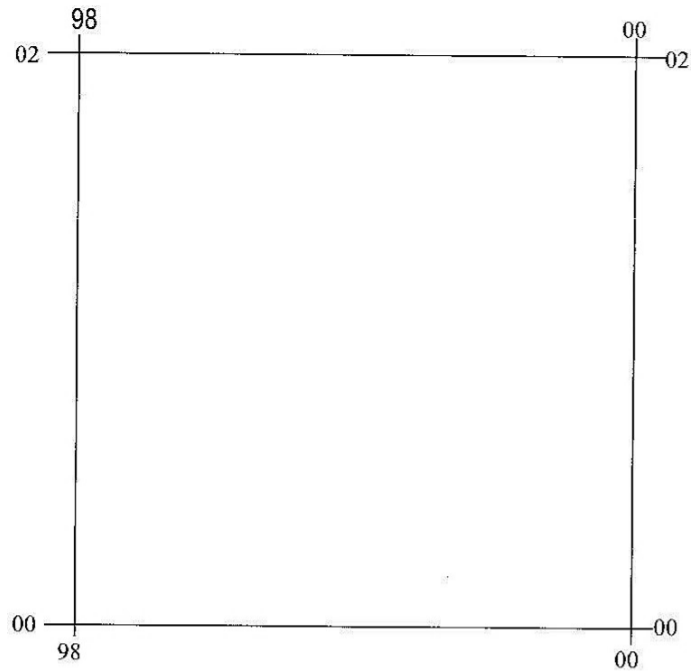
- 8 Study the map extract below.



The general drainage pattern in the shaded area above is ...

- A Dendritic.
  - B Radial.
  - C Rectangular.
  - D Trellis.
- 9 The area in the South East part of the map is generally ...
- A Flat.
  - B Gently sloping.
  - C Hilly.
  - D Undulating.
- 10 Why are most of the settlements found in the northern parts of the map?
- A Availability of many religious centres.
  - B Due to presence of flat land.
  - C Presence of good drainage.
  - D Presence of many industries.

11 Study the diagram below showing part of the map extract.



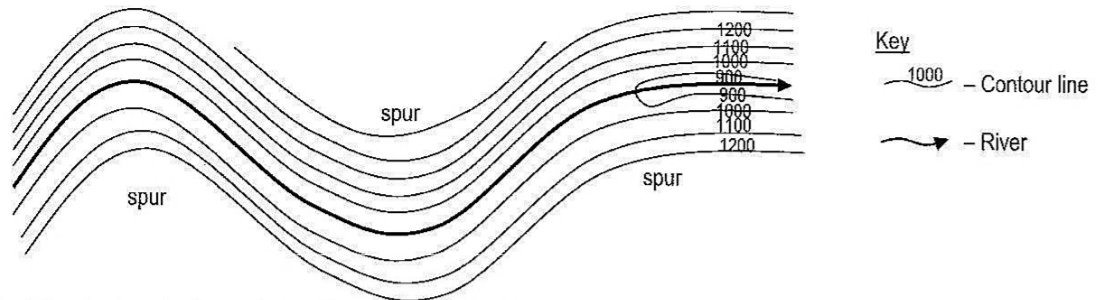
Which type of vegetation is well adapted in the area?

- A Filaos
  - B Forest
  - C Scattered trees
  - D Scrub
- 12 According to map evidence, the major economic activity practised in Mauritius is ...
- A agriculture.
  - B forestry.
  - C mining.
  - D recreation.

**Section B: Elements of Physical Geography**

- 13 On which one of the following days will places situated along latitude  $23\frac{1}{2}^{\circ}\text{S}$  have 12 hours daylight and 12 hours of darkness?
- A 21<sup>st</sup> March
  - B 21<sup>st</sup> June
  - C 22<sup>nd</sup> December
  - D 23<sup>rd</sup> October
- 14 The sun's angle of elevation at noon at latitude  $48^{\circ}\text{N}$  on 21<sup>st</sup> June would be ...
- A  $18\frac{1}{2}^{\circ}$ .
  - B  $48\frac{1}{2}^{\circ}$ .
  - C  $65\frac{1}{2}^{\circ}$ .
  - D  $66\frac{1}{2}^{\circ}$ .
- 15 Which one of the following is associated with an earthquake?
- A Avalanche
  - B Landslide
  - C Soil creep
  - D Soil erosion
- 16 Which one of the following describes the process of weathering?
- A The break-up of rocks when exposed to the atmosphere.
  - B The removal of top soil in areas of heavy rainfall.
  - C The removal of rock material by rivers.
  - D The wearing away of rock by wind-blown sand.
- 17 Which one of the following is a type of river erosion?
- A Attrition
  - B Floatation
  - C Solution
  - D Suspension
- 18 A natural fountain of hot water and super heated steam ejected explosively from beneath the earth is a ...
- A crater.
  - B dyke.
  - C geyser.
  - D hot spring.

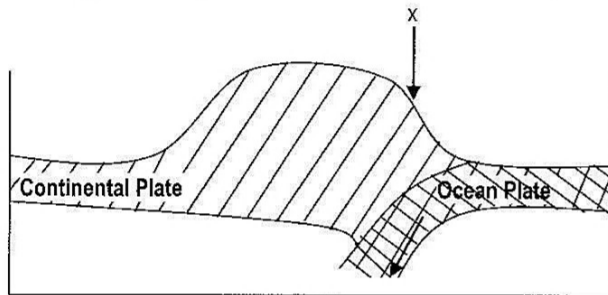
19 Study the diagram below found in a tropical region.



What is the main function of the river in this stage?

- A Erosion of the materials from the spur.
- B Lateral erosion of the river channel.
- C Meandering through the spurs.
- D Vertical erosion of the river channel.

20 Study the diagram below which shows a plate margin.



What landform is likely to occur at X?

- A Active volcano
- B Block mountain
- C Mountain trench
- D Rift valley

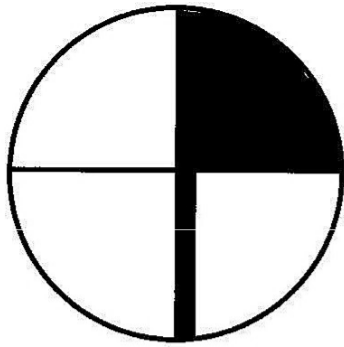
21 Which of the following features is associated with a faulted area?

- A Batholith
- B Cone
- C Horst
- D Syncline

22 Residual mountains are also known as mountains of ...

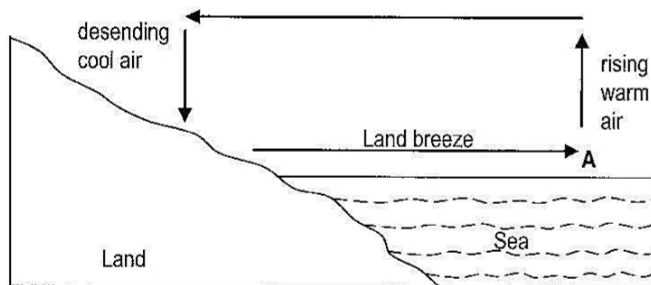
- A accumulation.
- B compression.
- C denudation.
- D deposition.

- 23 Study the diagram below showing cloud cover at a weather station.



What is the amount of cloud cover shown in the diagram?

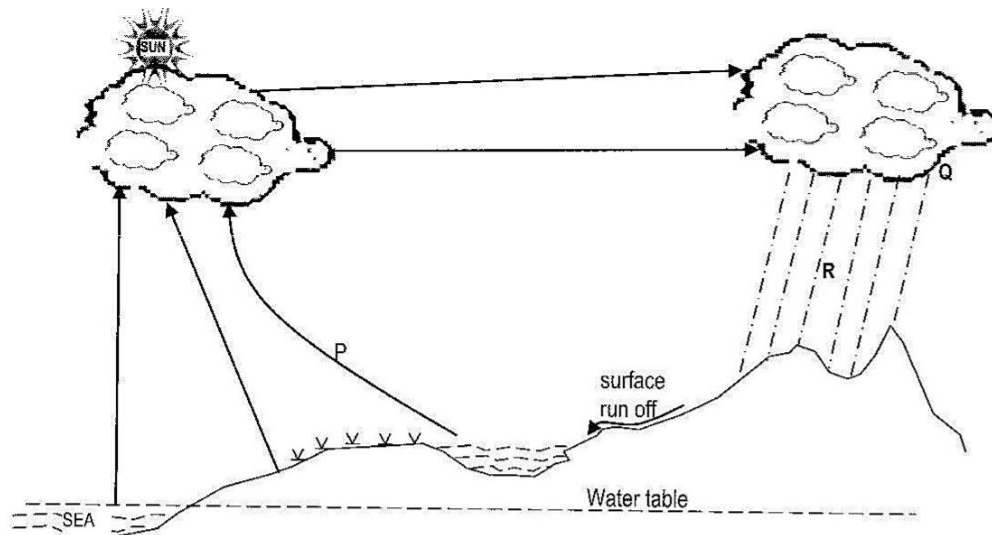
- A  $\frac{1}{8}$
  - B  $\frac{2}{8}$
  - C  $\frac{4}{8}$
  - D  $\frac{5}{8}$
- 24 Study the diagram below.



Area A is likely to record ...

- A high rainfall.
- B heavy fog.
- C low pressure.
- D low temperature.

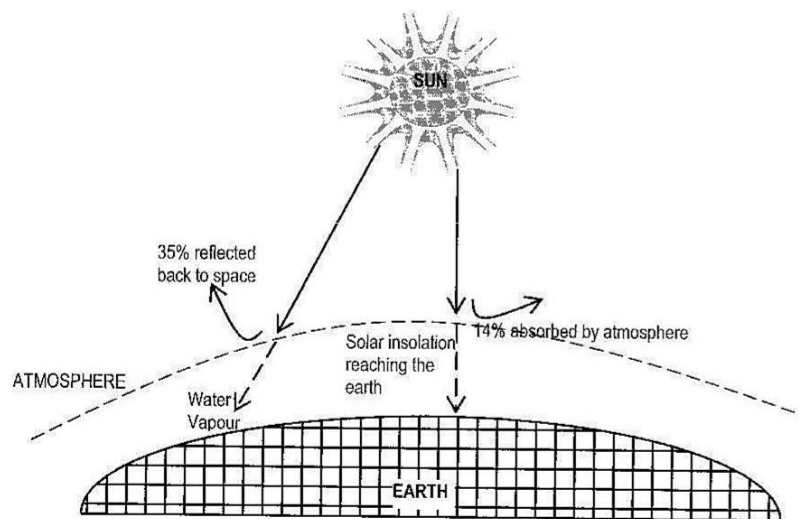
25 Study the diagram below showing the water cycle.



What are the three processes that make up the water cycle in the diagram?

	P	Q	R
A	Condensation	Evaporation	Precipitation
B	Evaporation	Condensation	Precipitation
C	Evaporation	Precipitation	Condensation
D	Precipitation	Condensation	Evaporation

26 Study the diagram below showing the distribution of solar energy.

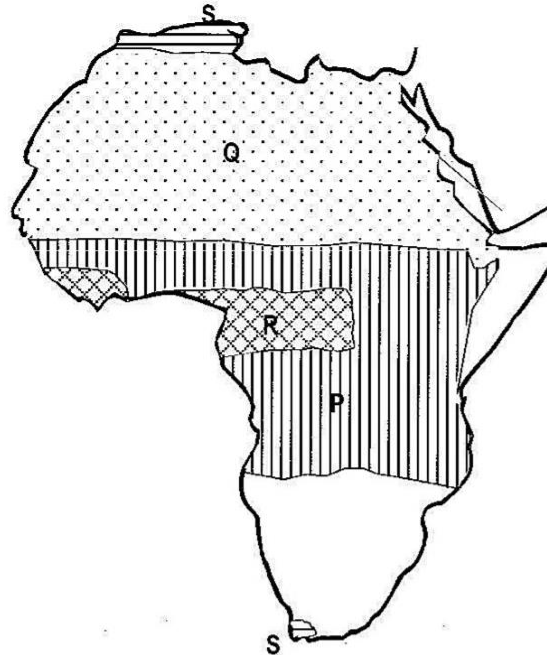


What is the approximate percentage of the solar energy which reaches the earth?

- A 14%
- B 25%
- C 51%
- D 86%



27 Study the map of Africa below



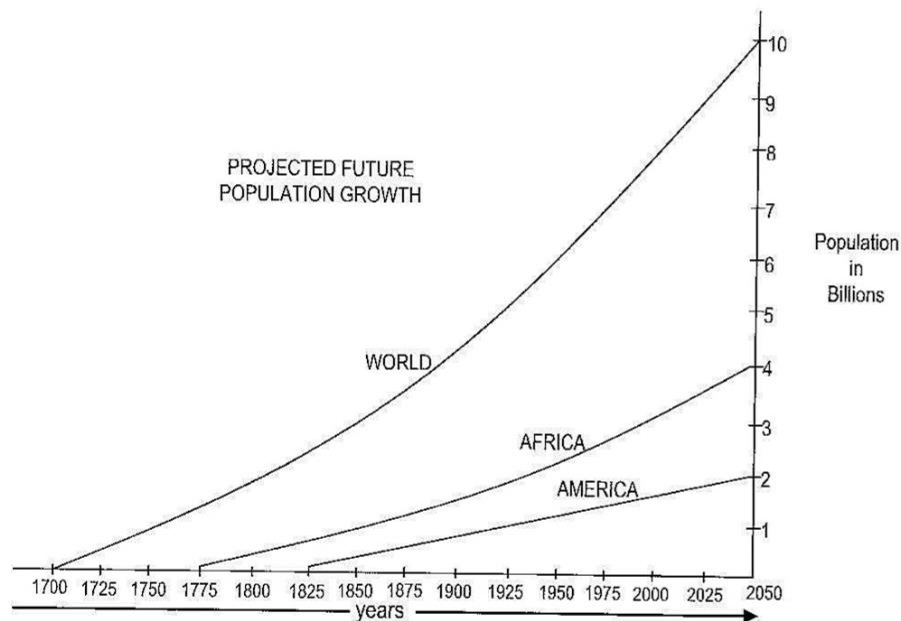
Which one of the following regions **P**, **Q**, **R** and **S** experiences westerly winds in winter and off-shore trade winds in summer?

- A P
  - B Q
  - C R
  - D S
- 28 Readings taken from a simple hygrometer are used to calculate ...
- A absolute humidity.
  - B cloud cover.
  - C relative humidity.
  - D temperature.
- 29 The importance of an isotherm is that it indicates areas with equal ...
- A cloud cover.
  - B pressure.
  - C rainfall.
  - D temperature.
- 30 Which one of the following climatic features is characteristic of hot deserts?
- A Light winds with no prevailing direction.
  - B Low relative humidity throughout the year.
  - C Less than 250mm of annual rainfall.
  - D Small daily range of temperature.

- 31 Which one of the following is a feature of the equatorial rain forest?
- A It has a layer arranged vegetation with little undergrowth.
  - B It has few trees with plenty of grass.
  - C Trees are deciduous with broad leaves.
  - D Trees are stunted with a lot of creepers.
- 32 Which one of the following is a tree species found in the Cool Temperate region?
- A Acacia
  - B Baobab
  - C Cactus
  - D Spruce

**Section C: Elements of World Human Geography**

33 Study the graph below.



- The projected population of Africa in 2025 is ... billion people.
- A 2.0.
  - B 3.4.
  - C 3.7.
  - D 4.0.
- 34 One of the effects of rapid population increase in the world is ...
- A decline in health standards.
  - B decline in mortality rates.
  - C increase in job opportunities.
  - D increase in standard of living.

- 35 Large concentrations of population sometimes develop in deserts and high mountain regions. What normally attracts such settlements to both harsh climate areas?
- A Fertile soils.
  - B Forest resources.
  - C Heavy rainfall.
  - D Mineral ores.
- 36 Which one of the following continents has the highest rate of urbanization?
- A Africa
  - B Asia
  - C Europe
  - D Latin America
- 37 Which one of the following is a geographical requirement for the successful growth of maize?
- A Average rainfall of 650 to 1000 mm.
  - B High land with acidic soils.
  - C Optimum of temperatures of about 16°C.
  - D Rich alluvial soil with an impervious subsoil to retain the water.
- 38 Which one of the following crops are grown under shifting cultivation?
- A Cassava and Cotton.
  - B Cucubits and Millet.
  - C Sorghum and Rice.
  - D Wheat and Millet.
- 39 Dairy farming is usually practised near large urban areas because ...
- A dairy products are easily perishable.
  - B only urban areas are suitable for dairy animals.
  - C rural dwellers do not consume dairy products.
  - D the grass is greener in urban areas.
- 40 Which one of the following countries is the largest producer of tea?
- A Brazil
  - B India
  - C Ivory Coast
  - D USA
- 41 "Once the crop is harvested, the pods are split open. The beans are separated from the pulp, fermented, dried, packed and exported"  
The crop being referred to above is ...
- A Cocoa.
  - B Cotton.
  - C Rice.
  - D Tea.

42 Study the world map below.



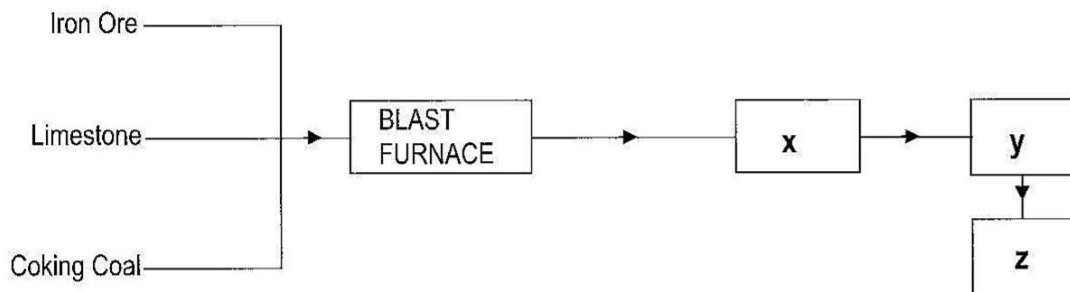
Sugar cane cultivation in the shaded areas above is hindered by ...

- A absence of cloud cover.
  - B deep nitrate soils.
  - C high temperatures.
  - D very low rainfall.
- 43 In a hydro-power station, penstocks are used to ...
- A control the water level in the reservoir.
  - B direct water to the turbines.
  - C reserve water behind the dam.
  - D transmit power to the generators.
- 44 A geologist prospecting and surveying for oil would most likely consider ...
- A gently folded anticlinal strata.
  - B zones of igneous rock.
  - C zones of metamorphic rock.
  - D zones of impervious rock.
- 45 Which one of the following power stations relies on hot water?
- A Hydro
  - B Geothermal
  - C Nuclear
  - D Solar

46 The high potential which Africa has on solar production is based on the abundance of ...

- A forest.
- B minerals.
- C skilled labour.
- D sunshine.

47 Study the flow diagram below



Which one of the following best describes the products obtained at each of the stages x, y and z?

	X	Y	Z
A	Cast iron	slag	steel
B	Cast iron	wrought iron	steel
C	Slag	cast iron	wrought iron
D	Wrought iron	steel	slag

48 Why are modern integrated iron and steel works no longer restricted in their location as was in the past?

- A Less coal per tonne of steel produced.
- B Less limestone as a flux in smelting.
- C Less skilled labour force because of automation.
- D Smaller quantities of water for cooling.

49 All of the following are used as alloy metals in steel making **except** ...

- A Cobalt.
- B Manganese.
- C Tungsten.
- D Zinc.

- 50** The consumption of steel products by the Automobile industry is not as much as before because of ...
- A** increased dependence on fibre glass.
  - B** increased dependence on copper.
  - C** greater dependence on locomotive transport.
  - D** reduced number of vehicles manufactured.

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