

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 Sheet provided.
- 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.

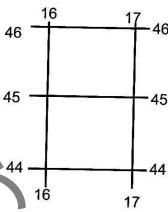
INFORMATION FOR CANDIDATES

- 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.

Section A: Mapwork and Basic Techniques

Qu	ESLIC	ons I to 12 are based on the 1:50 000 map extract of Mbalabala (Zimbabwe).			
1	Wh	at is the six figure grid reference of the Ruins just east of Incema River?			
	A	133445			
	В	135436			
	C	435135			
	D	436135			
2	Wh stat	at is the bearing of the Water Intake Tower in grid square 2146 from the trigonometrical tion in grid square 2150?			
	A	0°			
	В	90°			
	C	180°			
	D	270°			
3	at is the height above sea level of the peak of Mbalani hill in grid square 2243?				
	A	366/T metres			
	В	1220 metres			
	C	1228.6 metres			
	D	1240 metres			
4	Which of the following indicate that there is cattle rearing east of grid line 18 and south of grid line 43?				
	Α	Dams			
	В	Dip tanks			
	C	Pastures			
	D	Rivers			
5	The feature followed by the track road starting at grid square 225380 up to the junction at grid square 232406 is a •••				
	Α	contour line.			
	В	forest.			
	C	river.			
	D	watershed.			
6	The	The general slope of the land between grid line 16 to 18 and from 51 to 49 is from •••			
	A	North-West to South-East.			
	В	North-East to South-West.			
	C	South-East to North-West.			
	D	South-West to North-East.			
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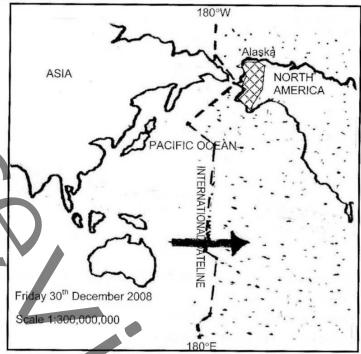
What type of drainage pattern is found in the map extract shown below?



- A Dendritic
- **B** Trellis
- C Radial
- D Rectangular
- **8** From map evidence, which of the following factors could have largely determined the location of the village in grid square 1940?
 - A Closeness to railway transport and electricity supply.
 - **B** Employment at Limerick farm and irrigation farming.
 - C Fishing on the Umzingwani and mineral prospecting.
 - Plat land for farming and river for water supply.
- 9 From map evidence, the reservoir in grid square 2138 gets its water from ••••
 - A Inyankuni river.
 - B Rainfall directly.
 - C Umzingwani river.
 - **D** Underground borehole.
- 10 Which of the following could be a reason for the scarcity of cultivation north of gridline 42?
 - A Hilly nature of the land.
 - **B** People are employed in the mines.
 - **C** The area is mainly a forest reserve.
 - **D** The area receives very little rainfall.
- 11 Which of the following grid squares has the highest density of both bush and streams?
 - A 1539
 - **B** 1639
 - C 1739
 - **D** 1839
- 12 From map evidence, which one of the following services is **not** available in Mbalabala?
 - A Accommodation
 - **B** Security
 - C Telegraphic
 - **D** Transport

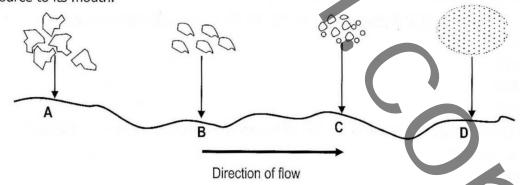
Section B: Elements of Physical Geography

13 Study the map below.



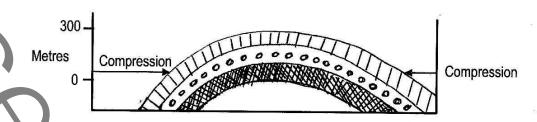
Which of the following was the correct date in Alaska?

- A Thursday 29th December 2008
- **B** Friday 30th December 2008
- C Saturday 31st December 2008
- **D** Sunday 1st January 2009
- 14 The Sun's angle of elevation at noon at latitude 48°N on 21st June would be •
 - A 241/2°
 - **B** 42°
 - C 651/2°
 - **D** 90°
- 15 The diagram below shows the changes in the size of the load transported by a river from its source to its mouth.



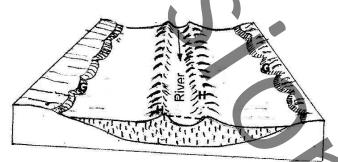
Which of the points A, B, C or D represents the plain course of a river?

16 Study the diagram below.



What feature is represented by the diagram above?

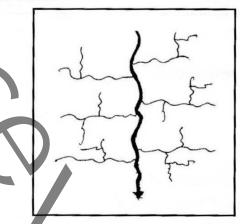
- **A** Anticline
- **B** Horst
- C Syncline
- **D** Valley
- 17 Which one of the following describes the process of weathering?
 - A The break-up of rocks when exposed to the atmosphere.
 - **B** The removal of rock material by rivers.
 - C The removal of top soil in areas of heavy rainfall.
 - **D** The wearing away of rock by wind-blown sand.
- 18 Study the diagram below.



What are features **G** and **H**?

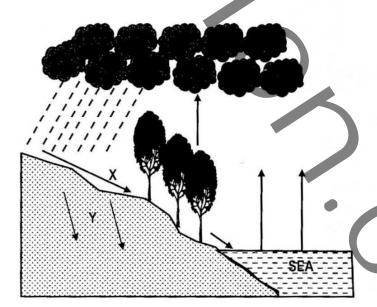
	G	н
A	Bluff	Levee
В	Bluff	Spur
C	Escarpment	Levee
D	Plateau	Valley

- 19 Which one of the following processes is the most active in limestone areas?
 - A Freeze and thaw
 - B Hydraulic action
 - **C** Mass wasting
 - **D** Solution
- 20 Study the diagram below.



What type of drainage pattern is shown above?

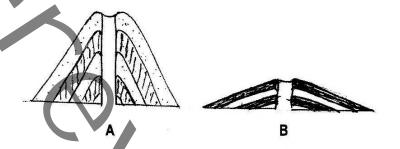
- **A** Dendritic
- **B** Radial
- **C** Rectangular
- **D** Trellis
- 21 Study the hydrological cycle shown below.



What processes do X and Y represent?

evaporation transpiration percolation surface runoff surface runoff percolation transpiration evaporation

22 Study the volcanic features shown below.



What materials formed features A and B?

fluid lava

viscous lava

mixture of gases В

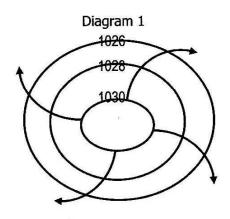
smoke

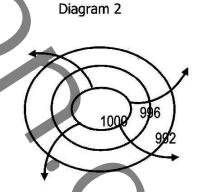
C viscous lava fluid lava

volcanic bombs D

ash

23 Diagrams 1 and 2 show pressure systems with associated winds.





Which of the following correctly describes the pressure systems?

Diagram 1

A

Anticyclone, Northern Hemisphere

B Anticyclone, Southern Hemisphere

C Cyclone, Northern Hemisphere

Cyclone, Southern Hemisphere

Diagram 2

Anticyclone, Southern Hemisphere

Cyclone, Northern Hemisphere

Anticyclone, Southern Hemisphere

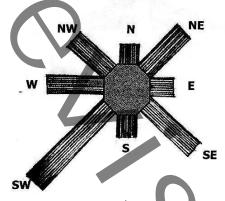
Anticyclone, Southern Hemisphere

24 Study the climatic table below.

RELATIVE HUMIDITY		
Dry Bulb	Wet Bulb	%
25°C	25°C	100

What is likely to occur as the temperatures fall?

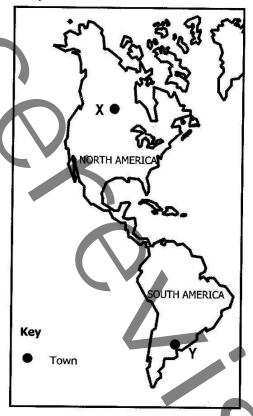
- A Decrease in cloud cover
- **B** Decrease in pressure
- C Increase in sunshine
- **D** Precipitation
- 25 Study the windrose shown below.



What is the location of the station on which the windrose is based?

- A 0° and 231/2°N
- **B** 0° and 231/2°S
- C 40°S and 60°N
- D 40°S and 60°S

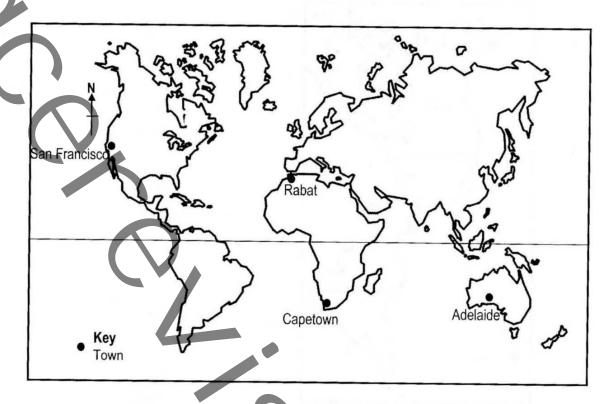
26 Study the map below.



What causes town **X** to experience a larger annual temperature range than town **Y**?

- A Altitude
- **B** Continentality
- C Latitude
- **D** Wind

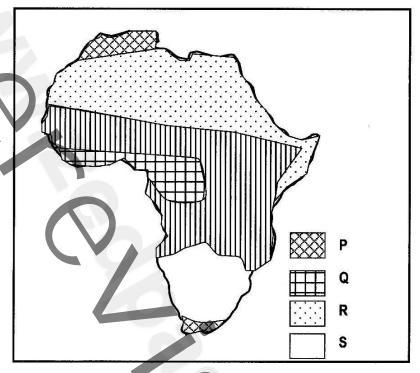
27 Study the map below.



Which of the following statements best describes the climatic characteristics of the towns shown on the map?

- A Hot and dry throughout the year.
- **B** Hot and wet throughout the year,
- C Mild rainy winters, hot dry summers.
- **D** Severe snowy winters, warm wet summers.
- 28 Which of the following climatic features is characteristic of hot deserts?
 - A High rainfall during the equinoxes.
 - **B** Light winds with no prevailing direction.
 - C Low relative humidity throughout the year.
 - D Small daily range of temperature.

29 Study the map of Africa below.

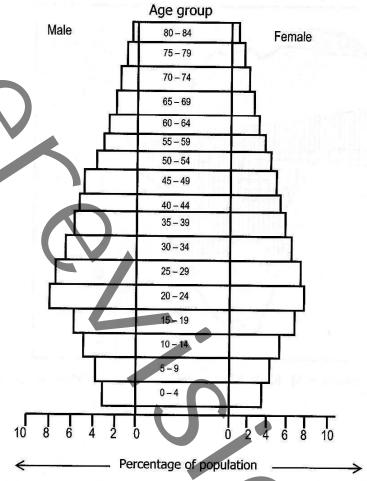


Which of the following regions **P**, **Q**, **R**, **or S** experiences westerly winds in winter and off-shore trade winds in summer?

- A P
- B Q
- C R
- D S
- 30 Which of the following climatic regions is **not** crossed by the Prime Meridian?
 - **A** Equatorial
 - B Hot desert
 - **C** Savanna
 - D Temperate continental
- 31 Which of the following best describes secondary forest.
 - A Forest in which the trees have been recently planted.
 - **B** Forest in which small plants grow on branches of trees.
 - C Forest which grows along the banks of rivers.
 - D Forest which grows where the original vegetation has been cleared.
- 32 What is the characteristic feature of the natural vegetation found in the hot desert area?
 - A It has dwarf and twisted trees.
 - B It has small dense shrubs.
 - C Plants are of medium height.
 - D Plants have small waxy leaves.

Section C: Elements of World Human Geography

33 Study the diagram below which shows population structure.



Which statement is true regarding the population as depicted in the above structure? There is •••

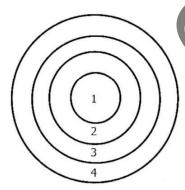
- A high fertility and high mortality.
- B low fertility and high mortality.
- C low fertility and low mortality.
- **D** low life expectancy.

34 Study the table below.

COUNTRY	ANNUAL (%) POPULATION GROWTH RATE
Canada	0.8
France	0.5
United Kingdom	0.1
United States	0.7
Sweden	0.01

What condition has led to a decrease in population growth rate in these countries?

- A A greater decline in birth rate than the death rate.
- **B** A greater decline in death rate than the birth rate.
- **C** A greater improvement in medical services and the diet of the population.
- **D** A larger life expectancy of the population leading to an aged population
- 35 Which of the following is **not** an indicator of over-population?
 - A Decrease in the standard of living.
 - B High dependency ratio.
 - C High Gross National Product (GNP) per capita income.
 - **D** Low levels of national development.
- 36 Which of the following factors is **not** a push factor in the rural-urban migration process?
 - A A low cost of living in rural areas.
 - **B** Drought in rural areas.
 - C Lack of schools in rural areas.
 - D Rural unemployment.
- **37** Study the concentric City Model that shows different land use zones.



Which of the following land uses are represented by zones 2 and 3 respectively?

- A Agricultural and Residential
- **B** Central Business District and Agriculture
- C Industrial and Residential
- D Residential and Central Business District

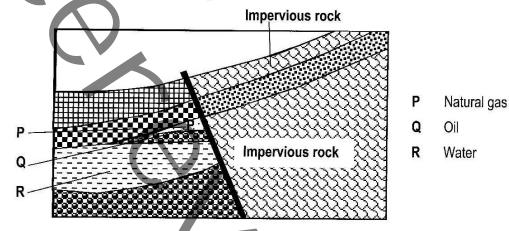
- 38 Which one of the following is a geographical requirement for the successful growth of maize?
 - Average rainfall of 650 1 000 mm.
 - B Average temperatures of about 16°C.
 - Rich alluvial soils with an impervious subsoil.
 - D Thick clay soil on gentle slope.
- 39 Study the diagram below that shows countries which produce rice under irrigation?

COUNTRY	Cultivated area (000 hectares)	Area under irrigation (000 hectares)
Japan	5 684	3 171
Indonesia	12 697	3 668
Thailand	11 415	1 768
India	163 720	27 520
Phillipines	8 546	960

Which of the following countries has the largest percentage of area under irrigation?

- A India
- **B** Indonesia
- C Japan
- **D** Phillipines
- 40 Why is India not a major beef producer although it is the leading cattle producer?
 - A Cattle are regarded as sacred.
 - **B** Cattle are used for draft power.
 - C Cattle produce poor quality beef.
 - **D** There are no proper beef storage facilities,
- **41** Which of the following crops has adversely been affected by the increase in synthetic products of petroleum?
 - A Maize
 - B Rye
 - C Sisal
 - D Wheat
- 42 Why are some oil refineries constructed at the port of import of crude oil?
 - **A** It is cheaper to transport the different refined oil products.
 - **B** It is dangerous to refine crude oil at the oil wells.
 - C Oil producing countries have no technical skills to build refineries.
 - **D** Such ports have high demand for oil products.
- 43 Which of the following A, B, C or D lists types of coal in increasing order of heat produced?
 - A Anthracite, Bituminous, lignite
 - **B** Bituminous, Anthracite, lignite
 - C lignite, Anthracite, Bituminous
 - D lignite, Bituminous, Anthracite

- 44 Which of the following sources of energy is the most widely used in the world?
 - A Coal
 - **B** Crude oil
 - C Natural gas
 - **D** Uranium
- 45 The diagram below shows an oil trap.



What is the type of oil trap shown above?

- A Anticlinal trap
- **B** Fault trap
- C Salt-plug trap
- **D** Synclinal trap
- 46 Which one of the following is the largest producer of steel?
 - A France
 - **B** Japan
 - C UK
 - D U.S.A.
- **47** Which of the following factors of iron and steel industrial location would be considered the least in importance?
 - A Labour
 - **B** Market
 - C Raw materials
 - **D** Transport
- 48 Which of the listed groups contains two types of iron ore and two types of coal?
 - A Bituminous, lignite, peat, siderite
 - **B** Haematite, lignite, limonite, anthracite
 - C Magnetite, haematite, lignite, limonite
 - D Siderite, peat, anthracite, bituminous

The table below shows the supply of raw materials to the iron and steel industries of Japan, German and the U.S.A.

Source	Raw material	Destination
Sweden	Iron Ore	Essen, Germany
South Africa	X	Osaka, Japan
Labrador	Y	Sparrow Point, U.S.A.

What are the raw materials X and Y

	X	Y
Α	Coal	Iron ore
В	Iron ore	Limestone
C	Limestone	Coal
D	Nickel	Limestone

- **50** Which of the following requirements was not a factor in the early development of the Rhur iron and steel industry?
 - A Canal transport
 - B Hydro-electric power
 - C Iron ore
 - **D** Rail transport