

EXAMINATIONS COUNCIL OF ZAMBIA

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

GEOGRAPHY

2218/1

PAPER 1

Friday

18 OCTOBER 2013

A 1:50 000 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 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.**
- 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.**

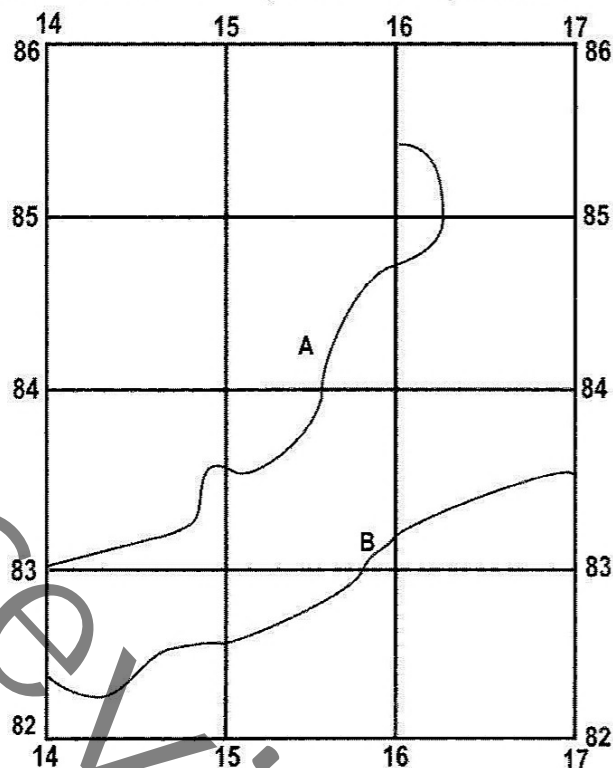
This question paper consists of 14 printed pages.

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 bridge that carries the wide tarred road and gravel road across the Pote River?
 - A 171804
 - B 173804
 - C 187804
 - D 804173
- 2 What man-made feature is found at grid reference 162856?
 - A Dam
 - B Mapunga Siding
 - C Railway Cutting
 - D Stream
- 3 What is the gradient between the trigonometrical station in grid square 1679 and the bridge in grid square 1780?
 - A 1 in 1
 - B 1 in 6
 - C 1 in 15
 - D 1 in 60
- 4 What is the distance along the Mazowe River in the north western part of the map extract?
 - A 5.4 km
 - B 5.8 km
 - C 6.2 km
 - D 6.6 km
- 5 In which grid square are the following: a powerline, railway embankments, wide tarred roads and sewerage ponds found?
 - A 2085
 - B 2185
 - C 2285
 - D 2385
- 6 What is the bearing of the Hospital in square 2287 from the sewerage ponds in square 2488?
 - A 66°
 - B 146°
 - C 206°
 - D 246°

- 7 Study the diagram below which shows part of the map extract.

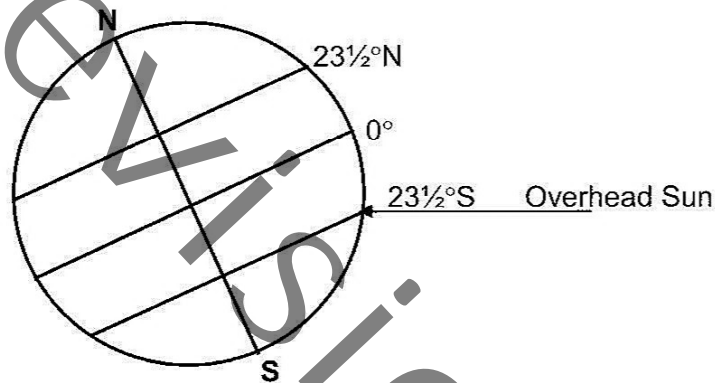


- The physical feature represented by the lines **A** and **B** is a ...
- A** ridge.
 - B** river valley.
 - C** spur.
 - D** watershed.
- 8 The settlement pattern in the area south of Pote River is ...
- A** dispersed.
 - B** linear.
 - C** nucleated.
 - D** radial.
- 9 In which grid square is the highest hill?
- A** 1679
 - B** 1987
 - C** 2478
 - D** 2486
- 10 Map evidence shows that the railway branch line to Burnside Estate and beyond was constructed to transport ...
- A** fish bundles.
 - B** plantation crops.
 - C** quarried materials.
 - D** town employees.

- 11 Which range of services is evident at Bindura?
- A District Administration Office, Sports field and Post office.
 - B Hospital, Police station and Church.
 - C Market, Post office and Sports field.
 - D Post and Telegraph Agency, Police Station and Hospital.
- 12 What major economic activities are carried out in the area north of grid line 86?
- A Farming and Power Production
 - B Fishing and Mining
 - C Mining and Farming
 - D Ranching and Fishing

Section B: Elements of Physical Geography

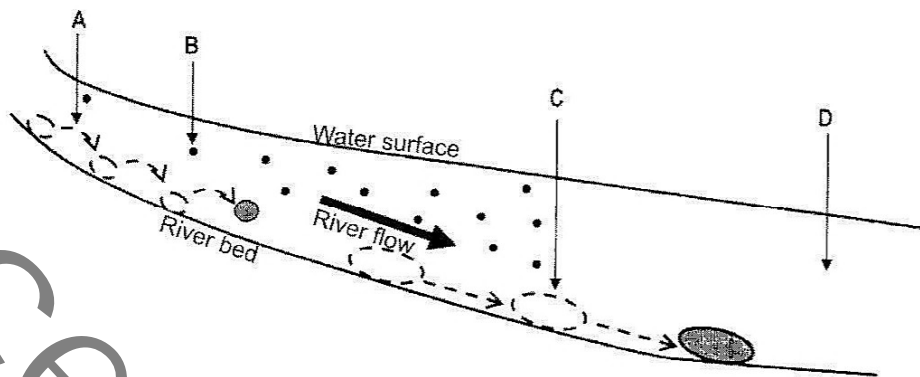
- 13 Study the diagram below.



The diagram shows the position of the earth in its orbit on ...

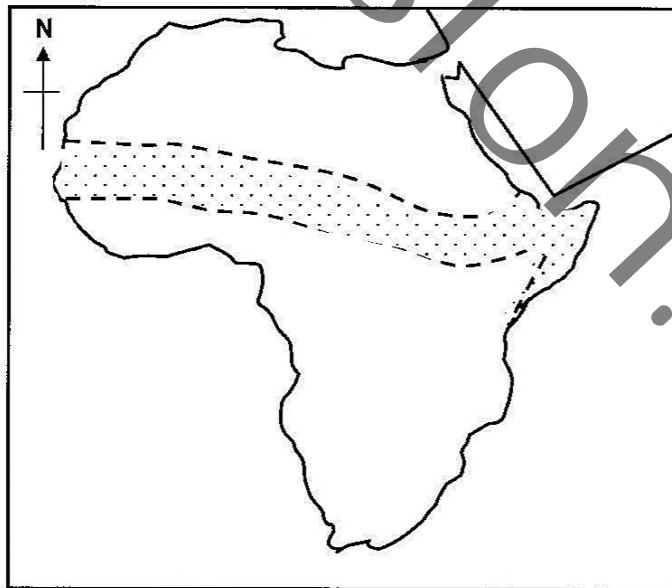
- A 21st March.
 - B 21st June.
 - C 22nd December.
 - D 23rd September.
- 14 What is the longitude of a place whose local time is 1200 hours when Greenwich time is 1600 hours?
- A 45°E
 - B 45°W
 - C 60°E
 - D 60°W
- 15 The long term usefulness of volcanism is that it promotes ...
- A crop growing.
 - B industrialization.
 - C lumbering.
 - D uranium mining.

16 Study the diagram below showing a river profile.



Which load **A**, **B**, **C** or **D**, is being transported by saltation?

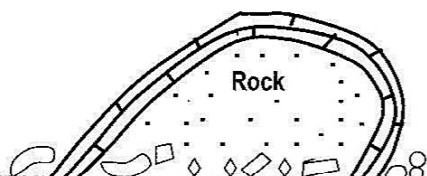
- 17 A Seismograph is an instrument used to ...
- A** monitor earthquakes and their effects.
 - B** show an earthquake's intensity.
 - C** show the effect of an earthquake.
 - D** show the magnitude of damage by an earthquake.
- 18 Study the map of Africa below.



What environmental hazard has affected the shaded area?

- A** Acid rain
- B** Drought
- C** Floods
- D** Tropical storms

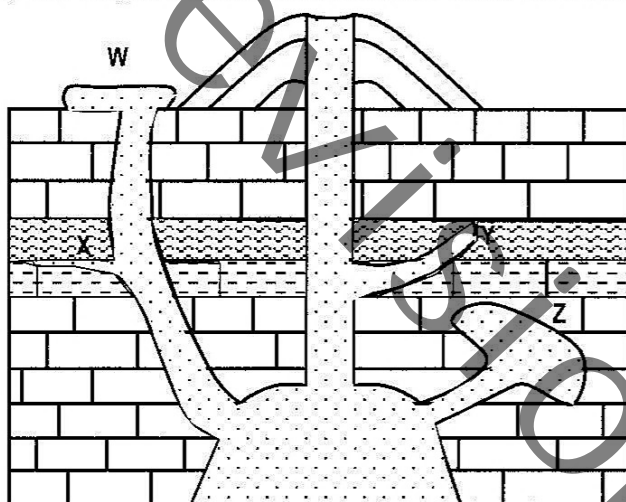
19 Study the diagram below, showing a rock structure.



What type of rocks are associated with the type of weathering shown in the diagram?

- A Hard resistant rocks.
- B Rocks of uniform structure.
- C Rocks which are soft.
- D Rocks which have layers.

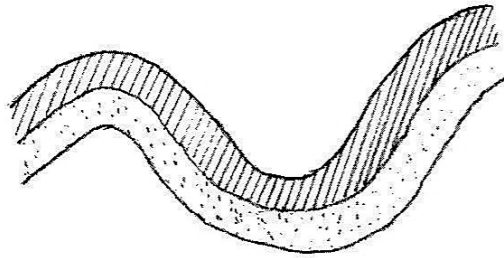
20 Study the diagram below which shows volcanic features.



Which one of the following is correct?

	W	X	Y	Z
A	Laccolith	Sill	Dyke	Lava plateau
B	Lava plateau	Dyke	Laccolith	Batholith
C	Lava plateau	Sill	Dyke	Laccolith
D	Volcano	Lava plateau	Sill	Dyke

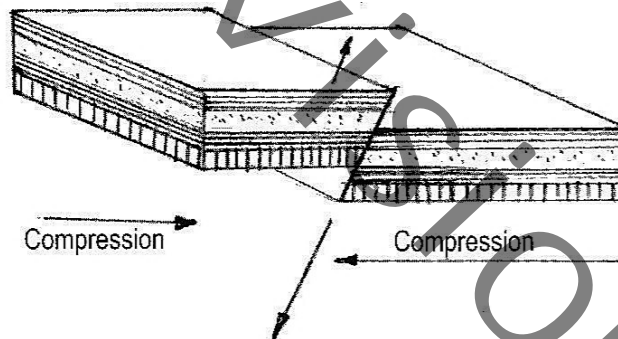
- 21 Study the diagram below showing a folded part of the earth's surface.



What type of force is responsible for the formation of the feature shown?

- A Compression
- B Lateral movement
- C Tension
- D Vertical movement

- 22 Study the diagram shown below.



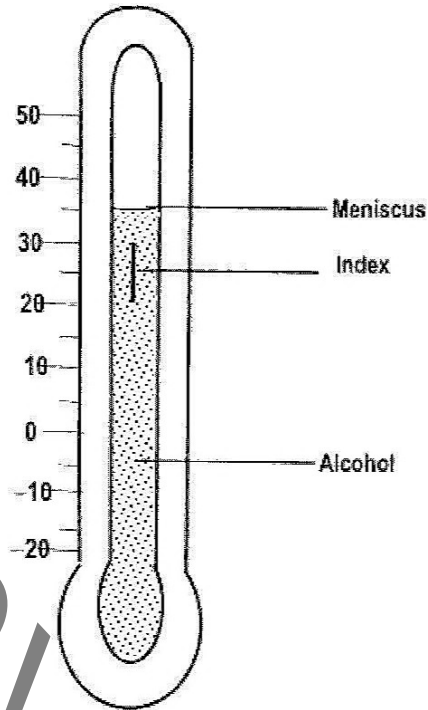
What type of a fault is indicated by the diagram?

- A Normal fault
- B Reverse fault
- C Tear fault
- D Thrust fault

- 23 A pupil in charge of a school weather station recorded the minimum and maximum temperature of a day, and subtracted the minimum temperature from the maximum temperature. The difference was recorded as ...

- A annual range.
- B average temperature.
- C daily range.
- D daily temperature.

24 Study the diagram below.



What is the instrument used to measure?

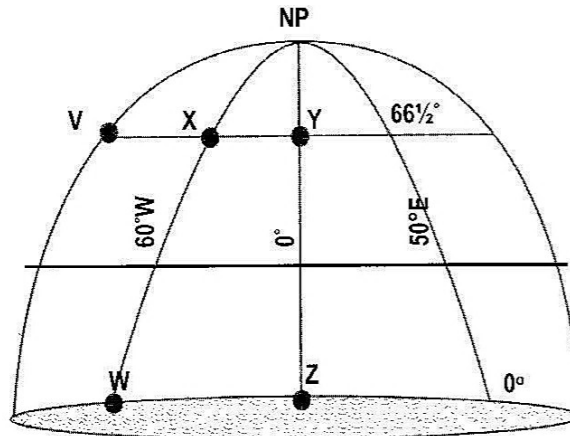
- A Body temperature
- B Maximum temperature
- C Maximum and Minimum temperature
- D Minimum temperature

25 Study the table below showing climatic data.

DAY	Temperature (°C)		Rainfall (mm)	Cloud cover (oktas)	Relative humidity (%)	Dew Point Temperature
	Max	Min				
A	26	17	60	6	70	6
B	24	16	70	8	80	4
C	25	18	56	7	74	5
D	26	15	65	7	78	6

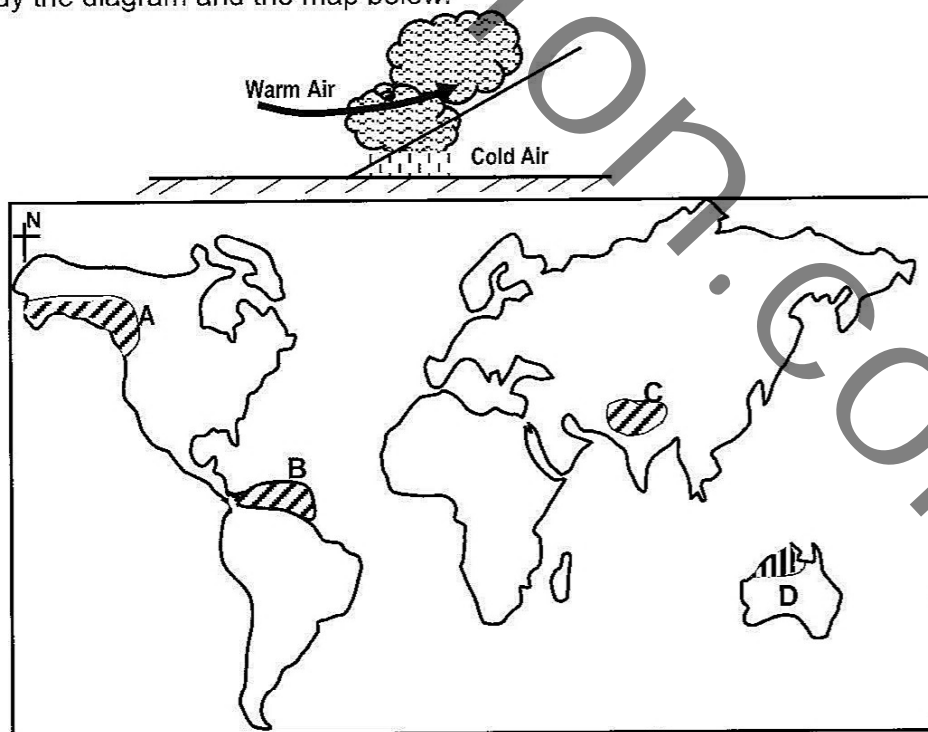
On which day **A**, **B**, **C** or **D** did air come closest to saturation?

26 Study the diagram below.



Which one of the following is a correct deduction?

- A The temperature difference between **W** and **Z** is high.
 - B The temperature difference between **X** and **Y** is high.
 - C The temperature difference between **X** and **V** is low.
 - D The temperature difference between **Z** and **Y** is very high.
- 27 An isobar is a line drawn on a map joining places of ...
- A uniform air pressure.
 - B uniform humidity.
 - C varying air pressure.
 - D varying humidity.
- 28 Study the diagram and the map below.



To which one of the shaded areas **A**, **B**, **C** or **D**, is the type of rainfall shown on the diagram associated?

- 29 Which one of the following trees would be found in a place which experiences high temperature and heavy rainfall throughout the year?

A Acacia
B Cork oak
C Greenheart
D Spruce

- 30 Study the climatic data below for Station X, whose altitude is 18 metres above sea level.

Station X

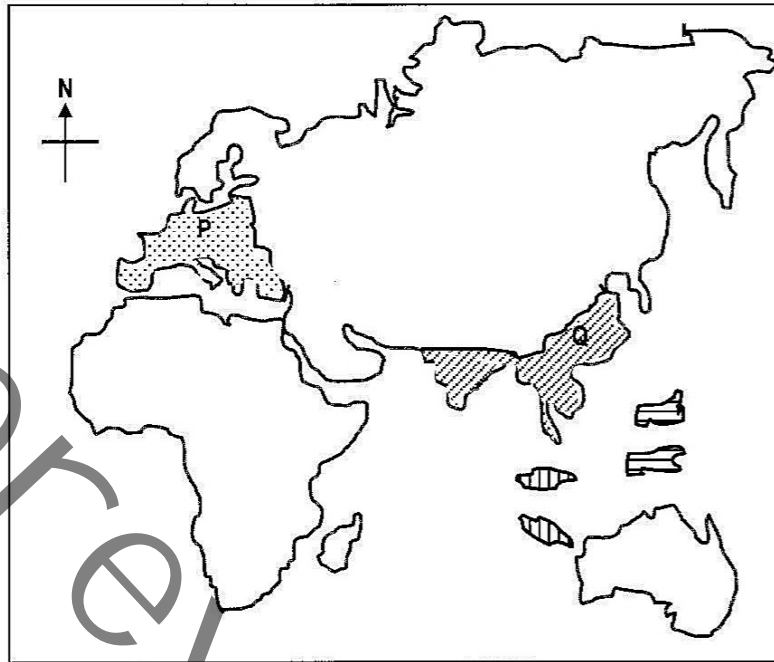
Month	J	F	M	A	M	J	J	A	S	O	N	D
Temperature (°C)	21	21	19	17	14	13	12	13	14	16	18	19
Rainfall (mm)	15	8	18	48	78	84	89	66	43	31	18	10

The natural vegetation at Station X would be ...

- A evergreen trees and shrubs.
B grassland with willows.
C tall grass inter faced with trees.
D teak forest and mangroves.
- 31 Which one of the following is true about the trees found in the Savanna region?
- A Crowns are cone-shaped.
B Have straight trunks.
C Roots store a lot of water.
D They shed their leaves in the dry season.
- 32 Which one of the following is not a characteristic feature of natural vegetation of hot deserts? Having ...
- A bulbous roots.
B large leaves.
C long, deep roots.
D succulent leaves.

Section C: Elements of World Human Geography

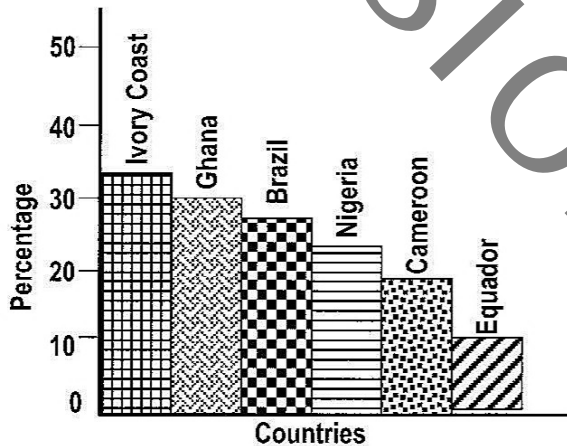
33 Study the map below.



Which of the following is true regarding population in the shaded areas P and Q?

- | P | Q |
|-----------------------------------|---------------------------------|
| A High density, high growth rate | High density, low growth rate |
| B High density, low growth rate | High density, high growth rate |
| C Low density, high growth rate | Medium density, low growth rate |
| D Medium density, low growth rate | Low density, high growth rate |
- 34 Which one of the following countries has the highest fertility rate?
- A Germany
 - B Italy
 - C Somalia
 - D U.S.A
- 35 A country can be said to have an optimum population when the ...
- A Birth Rate and Death Rate are equal.
 - B Birth Rate becomes stable.
 - C Birth Rate is very high due to high fertility rate.
 - D resources can sustain the population.
- 36 Which one of the following regions may not be classified as one of the world's most populated areas?
- A Amazon basin
 - B Nile River Valley
 - C North Eastern U.S.A.
 - D South Eastern China

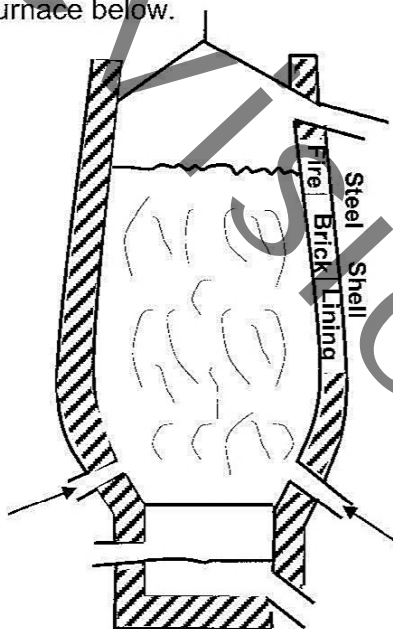
- 37 What does the term, "Inter-cropping" mean?
- A Alternating cultivation of crops with fallowing.
 - B Growing a crop in one field and then transplanting it to another field.
 - C Growing different crops in alternate rows in a field.
 - D Growing one type of crop twice a year in one field.
- 38 The highest density of rural population is generally associated with ...
- A cattle ranching.
 - B extensive wheat cultivation.
 - C intensive rice cultivation.
 - D nomadic herding.
- 39 Which one of the following is a characteristic of plantation farming?
- A Big farms with a diversity of crops.
 - B Both capital and labour intensive.
 - C Farms are divided into small holdings.
 - D High mechanization with few labourers.
- 40 Which agricultural practice would quickly turn the Tropical Rain forest into Savannah grassland?
- A Livestock rearing.
 - B Orchard farming.
 - C Sedentary agriculture.
 - D Shifting cultivation.
- 41 The diagram shows the production of a cash crop by the six main producers in the world.



To which one of the following crops does this apply?

- A Cocoa
 - B Coffee
 - C Rubber
 - D Sugar Cane
- 42 Which one of the following is **not** a use of coal?
- A Generation of electricity
 - B Manufacture of benzol
 - C Production of aluminium
 - D Production of coke

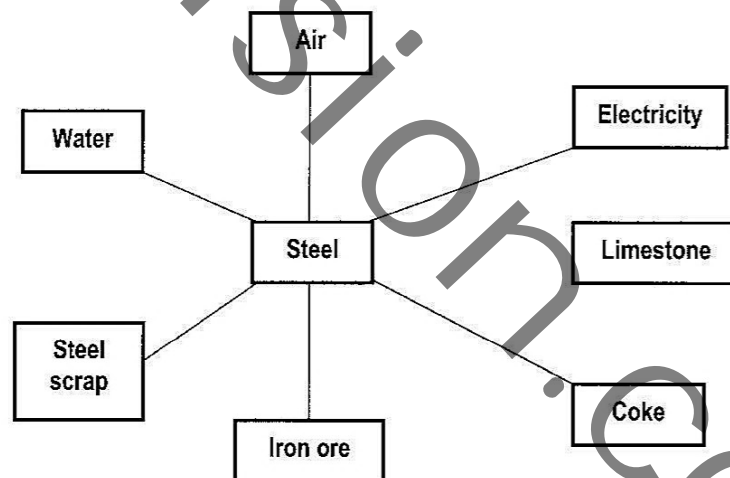
- 43 Which one of the following sources of energy would be affected by drought?
- A Coal
 - B Hydro
 - C Oil
 - D Wind
- 44 What type of energy produced by human and animal waste is used for lighting, cooking and generating electricity?
- A Biogas
 - B Ethanol
 - C Methane
 - D Petroleum
- 45 Which one of the following power plants is capital intensive?
- A A biomass station
 - B A solar plant
 - C A wind power plant
 - D An HEP plant
- 46 Study the Blast furnace below.



What is the main purpose of the fire-brick lining?

- A Increase temperature within.
- B Keep the molten materials cooler within.
- C Protect the structure from collapsing.
- D Shield the outer casing from excessive heat.

- 47 At which Iron and steel manufacturing centre are both iron ore and coal obtained from somewhere else?
- A Gary in USA.
 - B Dortmund in Germany.
 - C Newcastle in Australia.
 - D Zaporozhye in Russia.
- 48 Why has there been an increase in iron ore production in Australia in the last decades?
- A Australia's population has increased.
 - B Foreign sources of iron ore have become exhausted.
 - C New deposits of iron ore have been discovered and exploited.
 - D There has been an improvement in means of transportation.
- 49 Which one of the following shows the correct order in the production of iron and steel?
- A Cast iron → Pig iron → Wrought iron → Steel
 - B Cast iron → Wrought iron → Pig iron → Steel.
 - C Pig iron → Cast iron → Wrought iron → Steel.
 - D Pig iron → Wrought iron → Cast iron → Steel
- 50 Study the diagram below showing raw materials used in a blast furnace.



Which raw materials needed in the iron and steel processing plant are the **cheapest** to obtain?

- A Air and Water
- B Coke and limestone
- C Electricity and steel scrap
- D Limestone and iron ore