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Answer FOUR questions only.

If you answer Question 1 put a cross in this box .

1. (a) Study Figure 1(a) which gives information about the climates of San Francisco and St Louis. The latitudes of these two cities are about the same.

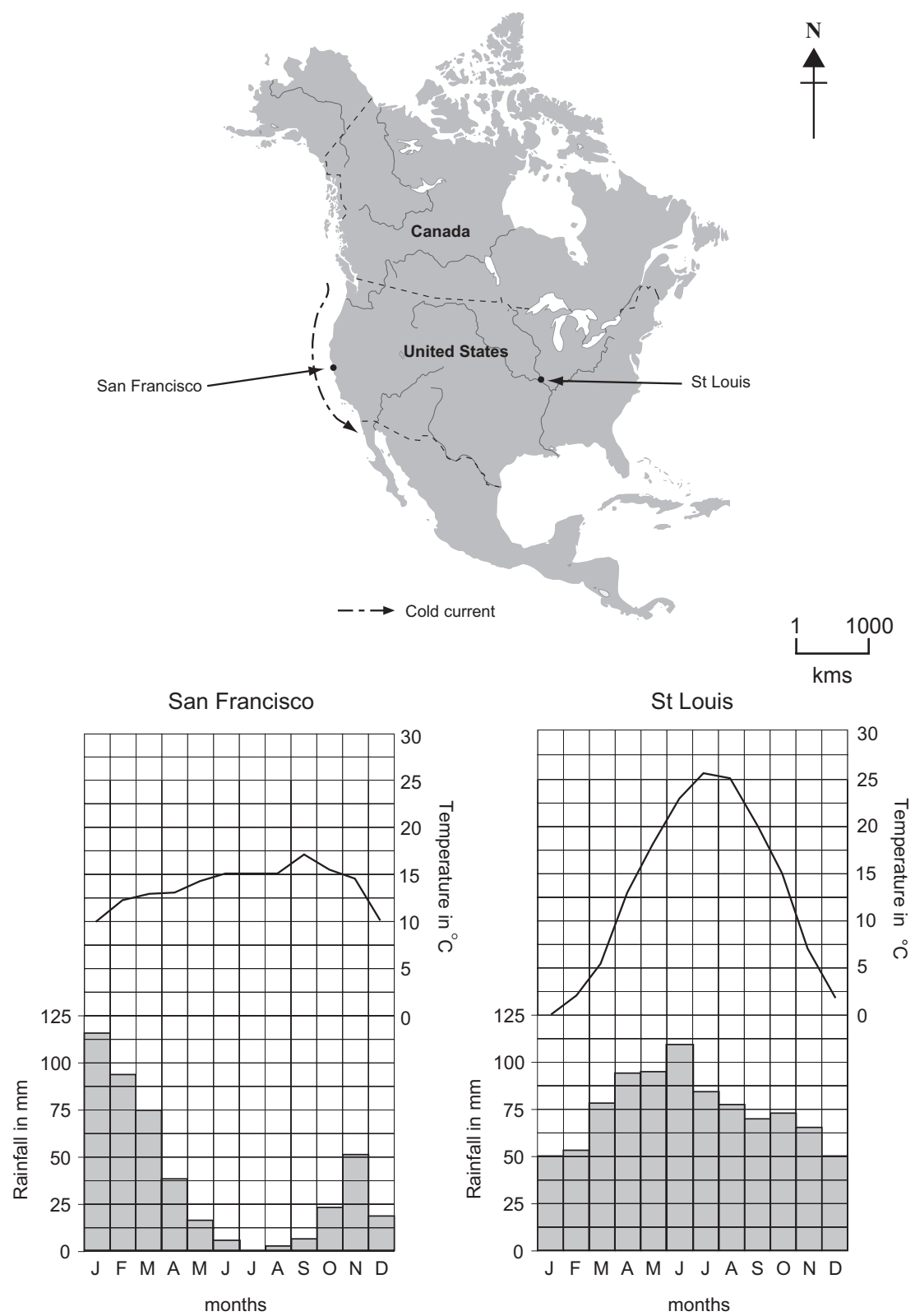


Figure 1(a)



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(i) Put a cross (☒) in the correct box to show which city has

1. the higher July temperature

San Francisco ☒

St Louis ☒

2. the lower January temperate

San Francisco ☒

St Louis ☒

3. higher winter rainfall

San Francisco ☒

St Louis ☒

4. higher annual rainfall.

San Francisco ☒

St Louis ☒

(4)

(ii) Compare the distribution of rainfall throughout the year in San Francisco and St Louis.

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(3)

(iii) San Francisco experiences a lot of fog. With the help of Figure 1(a), explain how this fog forms.

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(iv) Explain why St Louis has a larger annual range of temperature than San Francisco.

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(6)

(b) Study Figure 1(b), two cuttings from the *Shepperton News*, a newspaper published in part of Australia, that has a Mediterranean-type of climate.

“Shepperton is now one of the most prosperous fruit and vegetable growing areas in south eastern Australia. It owes almost everything to the introduction of irrigation schemes.”

*May 1980*

“The increasing effect of irrigation schemes is killing this community. It threatens the entire social, environmental and economic basis of the area.”

*May 2000*

**Figure 1(b)**



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Suggest why

- (i) irrigation schemes are introduced into areas that have Mediterranean-type climates

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- (ii) opinion about these schemes has changed.

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(9)  
(Total 25 marks)

Q1

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If you answer Question 2 put a cross in this box .

2. (a) Study Figure 2 which shows the decline of tropical rainforest in Central America between 1970 and 2000.

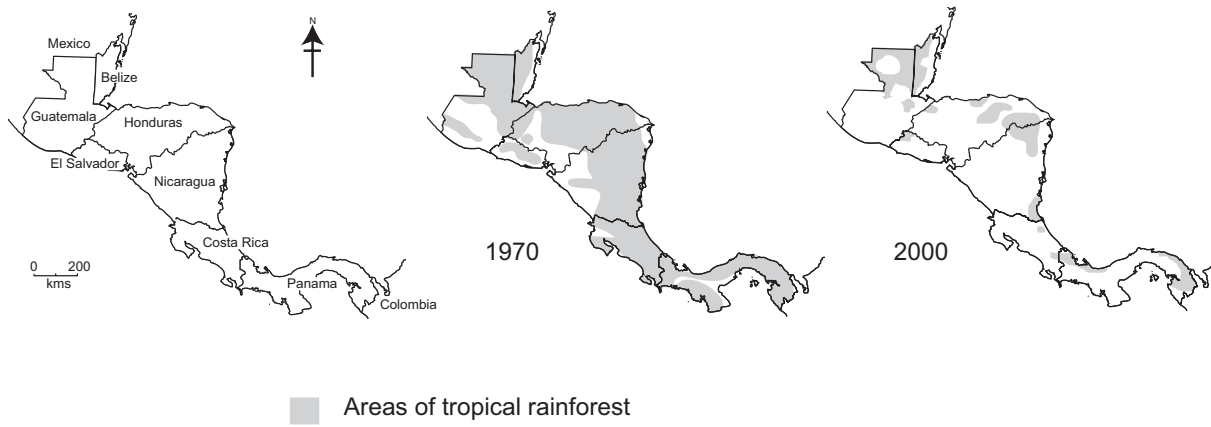


Figure 2

(i) State which country

1. was most forested in 1970 .....

2. had lost most of its forest by 2000. ....

(2)

(ii) Describe the general changes in forest cover between 1970 and 2000.

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(3)



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(iii) Suggest reasons for the changes in forest cover.

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(5)

(iv) State **two** characteristic features of tropical rainforest.

1 .....

2 .....

(2)

(v) Explain **two** ways in which this type of forest is adapted to the physical environment.

1 .....

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2 .....

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(4)



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(b) For **one** named area of tropical rainforest outside Central America, explain why governments of Low Income Countries (LICs) and Advanced Industrial Countries (AICs) often disagree over

(i) the causes of forest clearance

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(ii) the solutions to deforestation.

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(9)  
(Total 25 marks)

Q2

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If you answer Question 3 put a cross  in this box .

3. (a) Study Figure 3(a) which shows how the types of weathering vary with changes in temperature and rainfall.

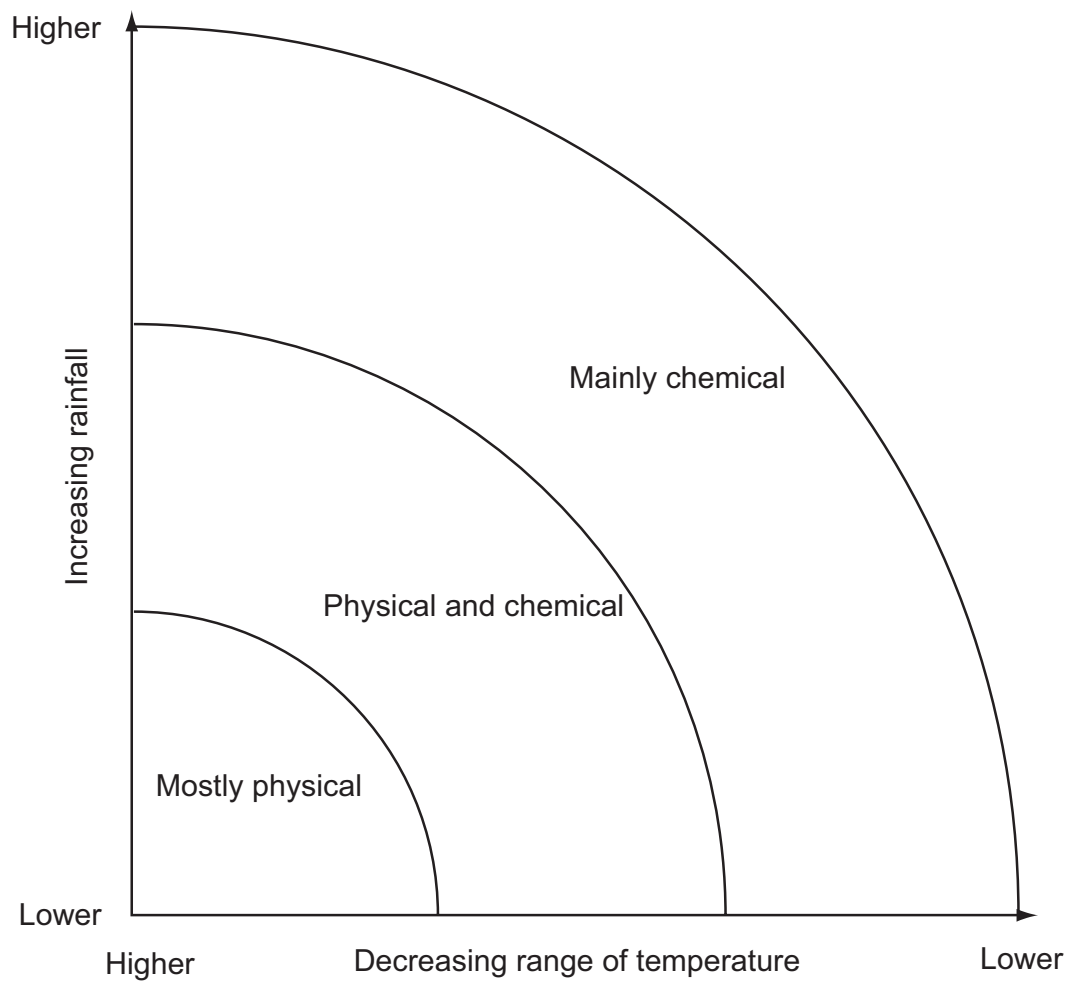


Figure 3(a)

- (i) How does the type of weathering change as rainfall increases? Put a cross () in the correct box.

Chemical  $\rightarrow$  Physical       Physical  $\rightarrow$  Chemical

(1)

- (ii) State which type of weathering is most common in

1. tropical rainforest .....

2. hot desert areas .....

(2)



(iii) What is meant by **range of temperature**?

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(1)

(b) Study Figure 3(b) which shows an area with three different types of rock.

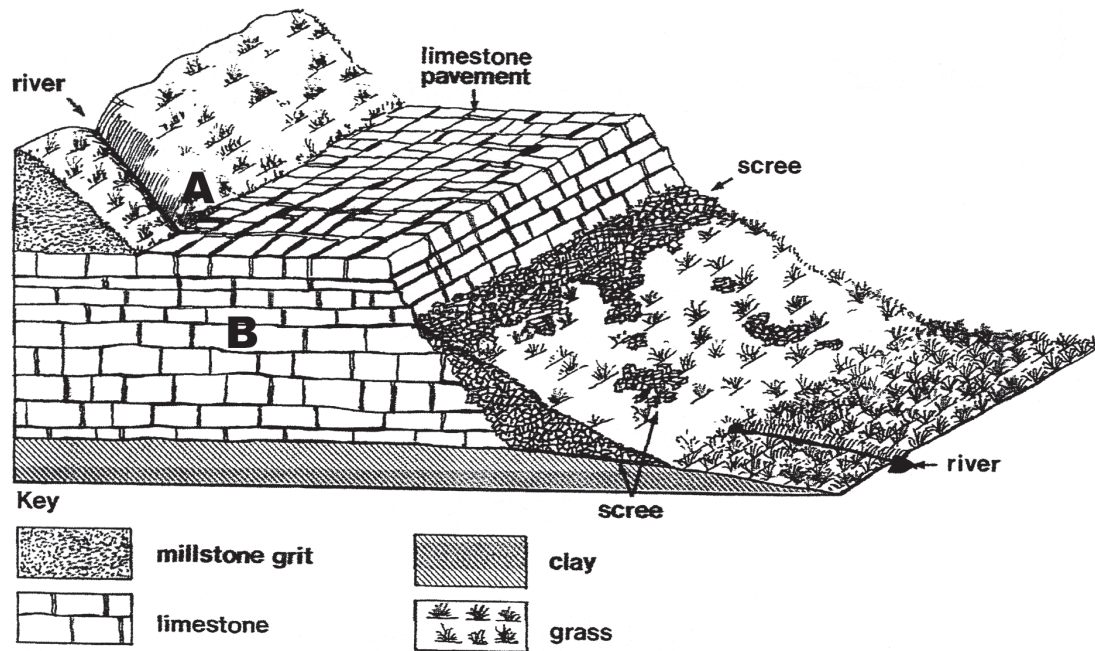


Figure 3(b)

(i) Give reasons why the river disappears at A.

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(3)



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(ii) Name and describe **one** underground feature likely to be found at **B**.

Feature .....

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**(3)**

(iii) Explain how

1. chemical weathering has led to the formation of the features on the limestone pavement

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**(3)**

2. physical weathering has led to the formation of scree.

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**(3)**





If you answer Question 4 put a cross in this box .

4. (a) Complete the table below to show which weather feature is measured by each of the four instruments.

Instrument	Weather feature
Anemometer	
Barometer	
Thermometer	
Wind vane	

(4)

- (b) Study Figure 4(a) which shows the weather over the North Atlantic and part of north western Europe.

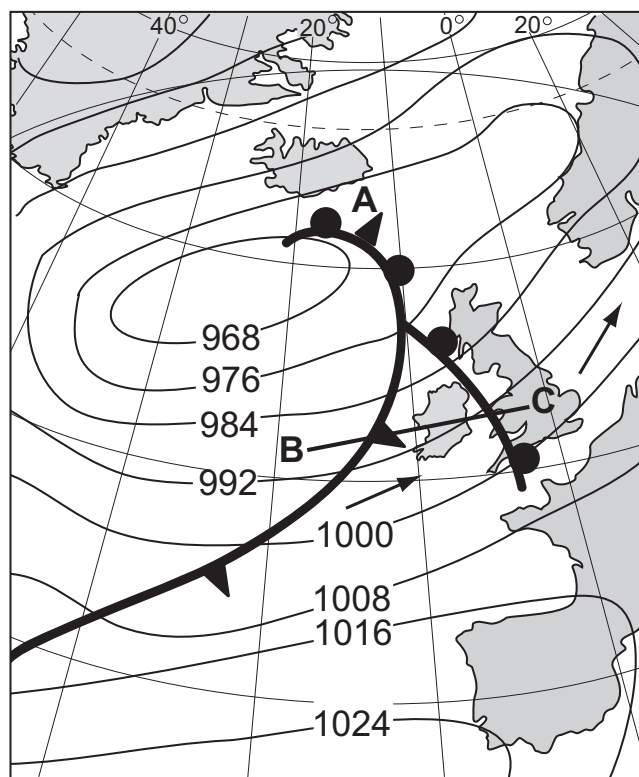


Figure 4(a)

- (i) State the type of front found at A.

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(1)



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(ii) In the space below, draw a simple sketch along the line **BC** on Figure 4(a). On it mark and label

1. the cold front
2. the warm front
3. the warm sector.

(5)

(iii) Describe the weather changes likely to occur at **C** as the weather system moves east.

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(6)



(c) Study Figure 4(b) which shows the distribution of minimum temperatures in London during a night in May.

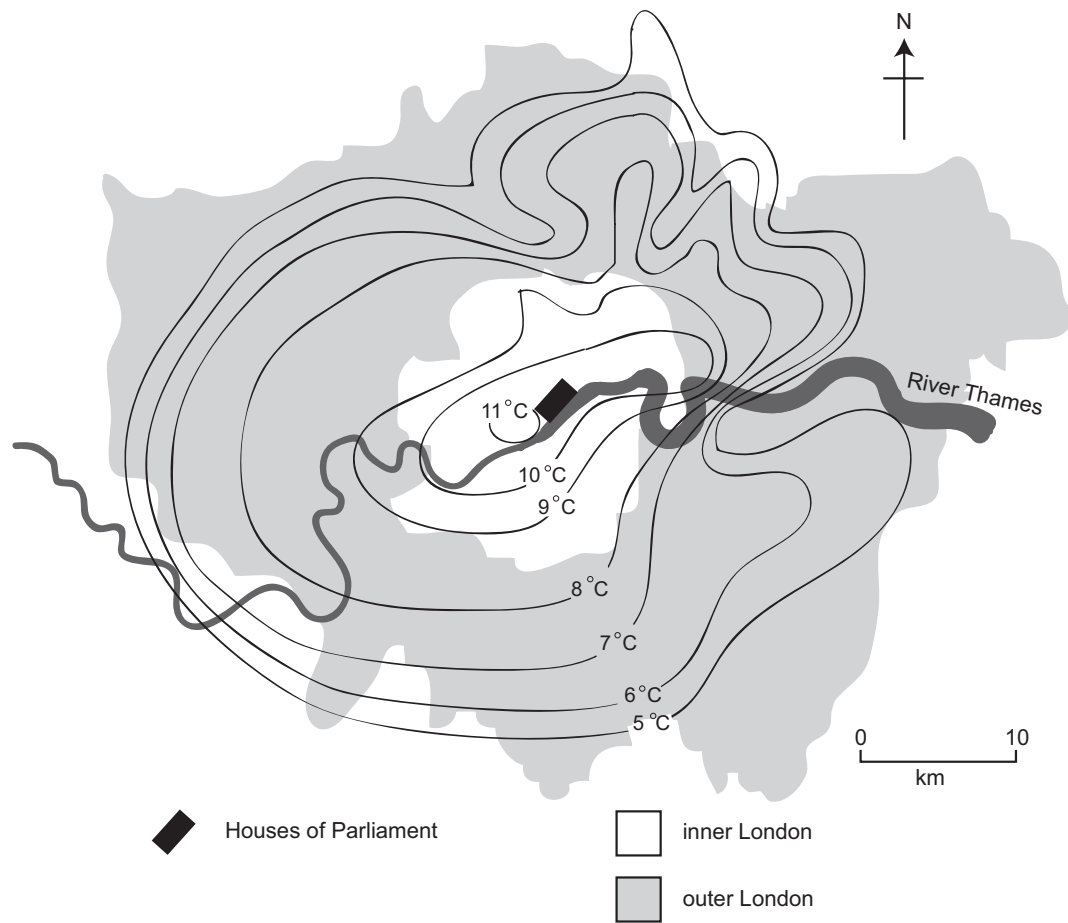


Figure 4(b)

(i) Describe the distribution shown.

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If you answer Question 5 put a cross in this box .

5. (a) Study Figure 5 which shows a river valley.

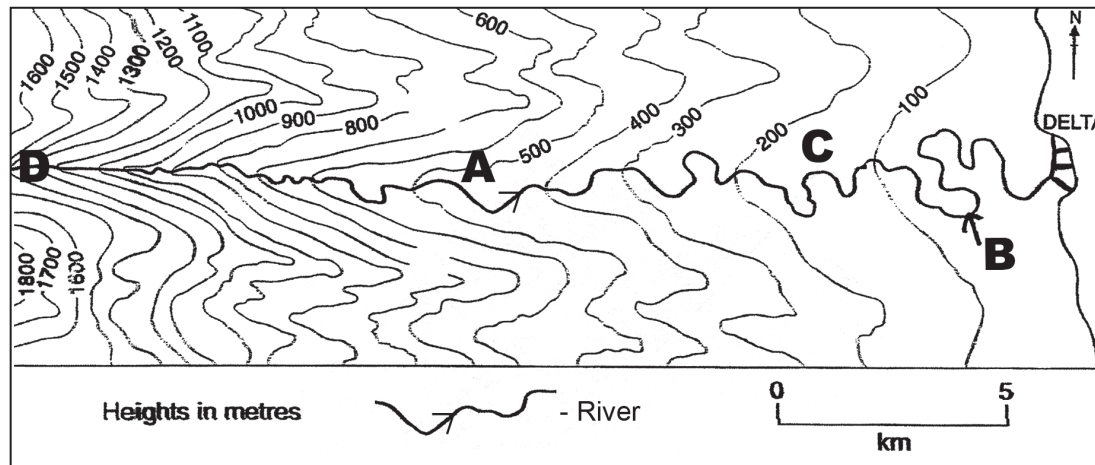


Figure 5

(i) State the height of the land at A.

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(1)

(ii) Give **two** physical characteristics of a delta.

1 .....

2 .....

(2)

(iii) Name the river feature at B.

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(1)

(iv) Explain how feature B is formed.

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(4)



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(v) Compare **C** and **D** in terms of

1. the load of the river
2. the velocity of the river
3. the shape of the valley.

1. Load: .....

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2. Velocity: .....

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3. Valley shape: .....

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**(3)**

(b) Describe the changes which may take place in a **river valley** as a result of a fall in sea level.

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**(5)**





If you answer Question 6 put a cross in this box ☒.

6. (a) Study Figure 6(a) which shows the global distribution of earthquake zones and the locations of six active volcanoes (A–F).

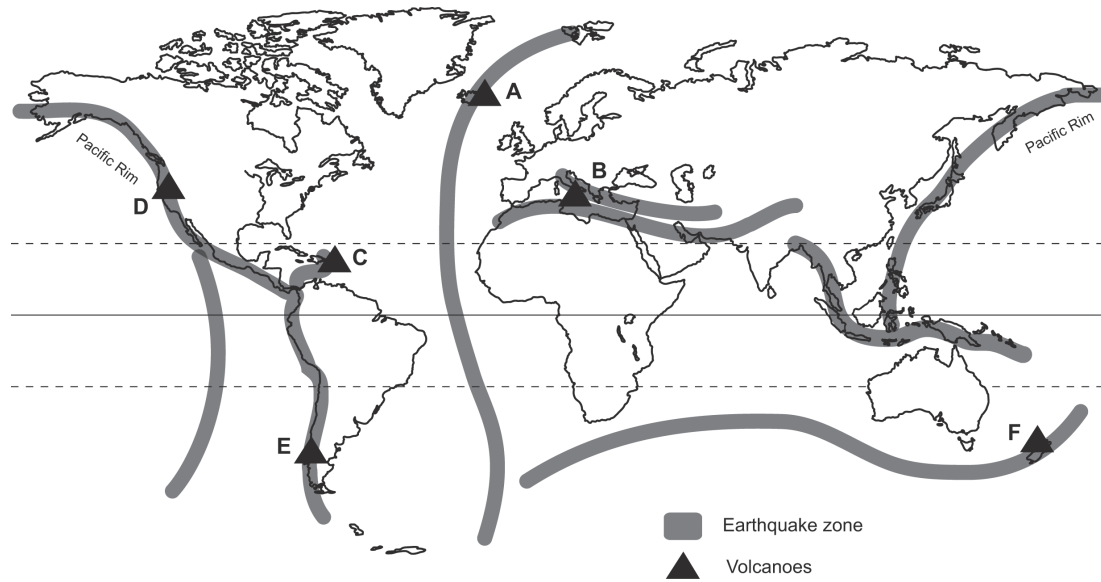


Figure 6(a)

(i) Put a cross (☒) in the correct box to show which letter corresponds to which volcano.

Volcano	A	B	C	D	E	F
Mt Etna (Sicily)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mt St Helens (USA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mt Ruapehu (New Zealand)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Montserrat Island (West Indies)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(4)

(ii) Identify **four** features of the global distribution shown.

1 .....

2 .....

3 .....

4 .....

(4)



(b) Study Figure 6(b) which shows the earth movements and volcanic activity around Mt St Helens.

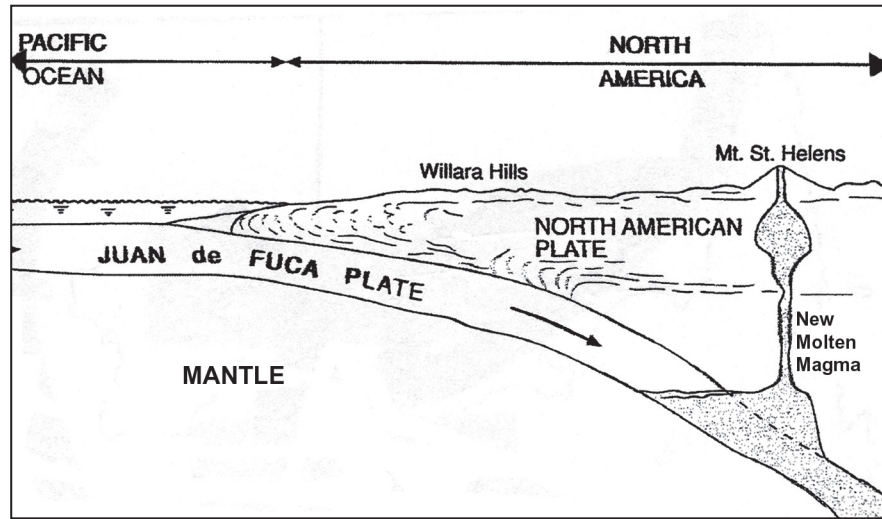


Figure 6(b)

(i) State what is meant by the terms

1. plate .....

2. mantle .....

(2)

(ii) Use the information on Figure 6(b) to explain why Mt St Helens is an active volcano.

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(6)





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If you answer Question 7 put a cross in this box ☒.

7. (a) Study the Ordnance Survey 1:50 000 map extract of an area of south east England.

(i) From the school in New Romney (070250) to the camp/caravan site in Camber (973184), state

1. the direction .....

2. the straight line distance .....

(2)

(ii) Describe the route you would take by road from the village of Old Romney (0325) to Lydd Airport (0621).

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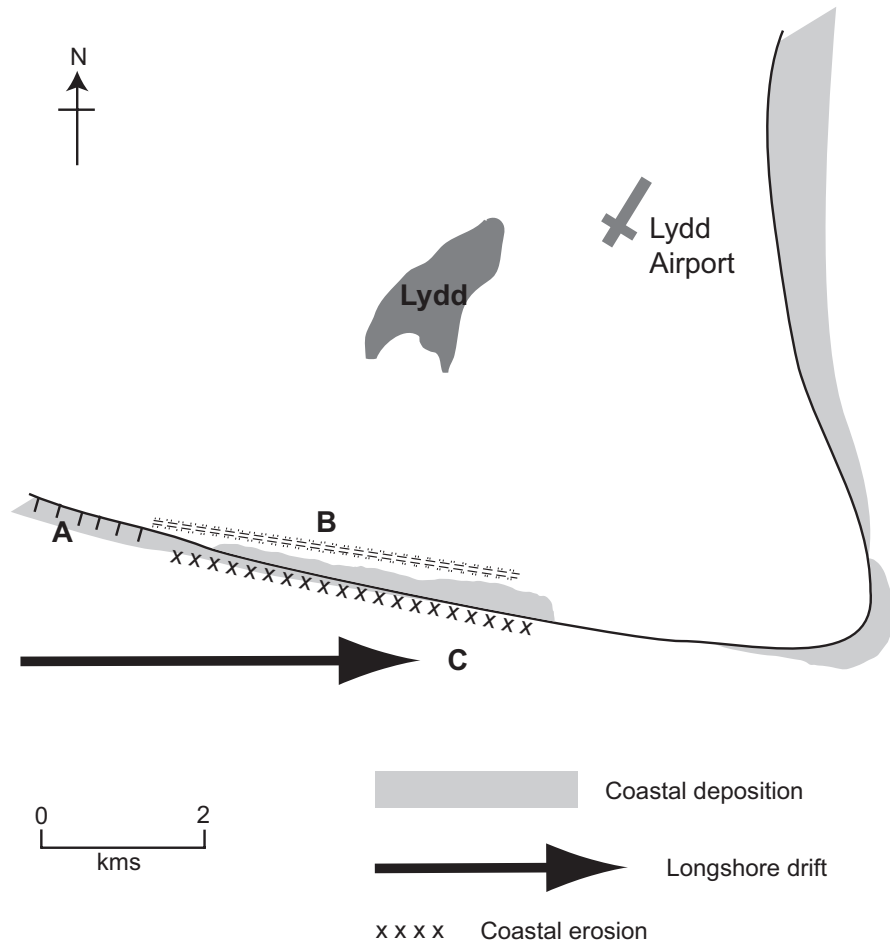
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(2)



(b) Study Figure 7 and the Ordnance Survey map extract.



**Figure 7**

(i) State the purpose of the features found at **A** and **B** on Figure 7.

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**(2)**





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(ii) Describe how both the width and types of deposits vary along the coast.

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(4)

(iii) Draw an annotated diagram to show the process of longshore drift as shown at C.

(3)

(c) Describe the relief and drainage of the inland area to the west of grid line 03.

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(3)





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If you answer Question 8 put a cross in this box .

8. (a) Study Figure 8(a) which shows carbon dioxide (CO<sub>2</sub>) emissions per person from the burning of fossil fuels in a sample of countries.

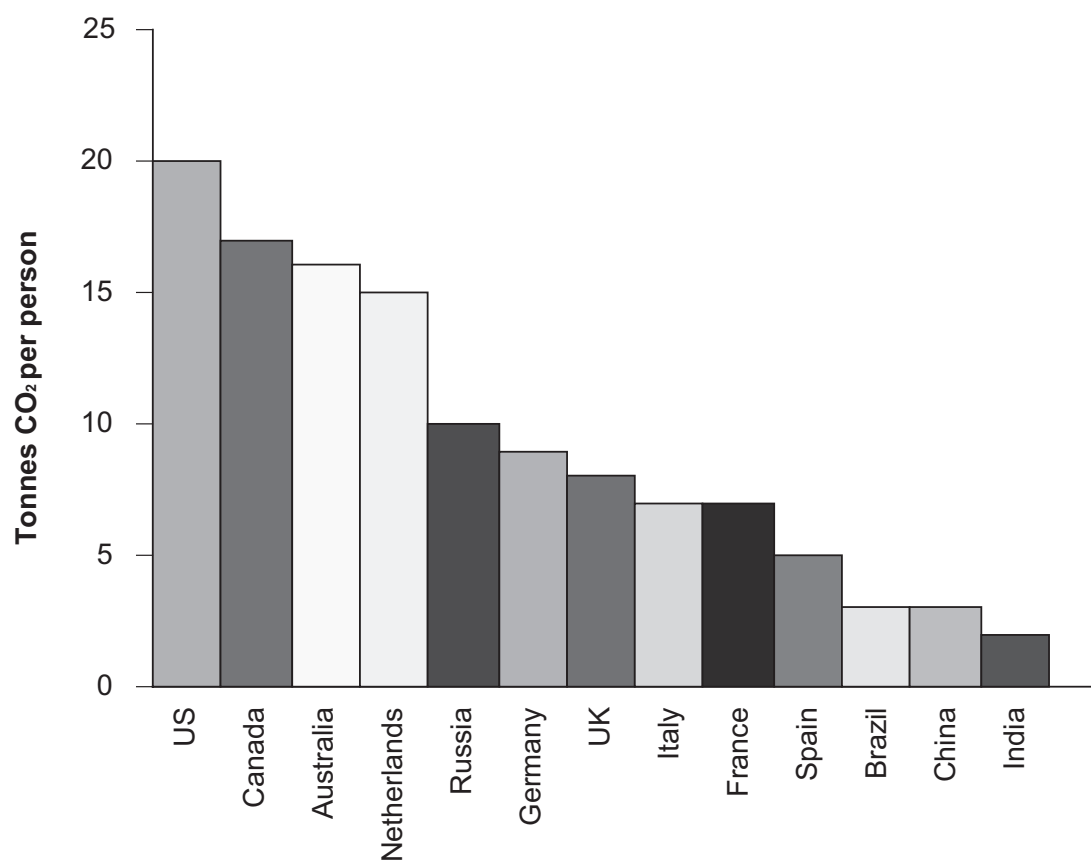


Figure 8(a)

- (i) Give one example of a fossil fuel.

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- (ii) State the emissions for Russia.

..... (1)



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(iii) Give **two** reasons for the difference in emissions between USA and India.

1 .....

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2 .....

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**(4)**

(iv) Suggest why these figures are given as 'per person'.

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**(1)**



(b) Study Figure 8(b) which shows how the Greenhouse Effect works.

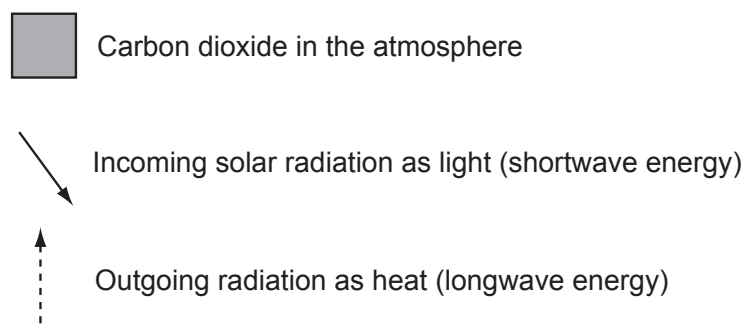
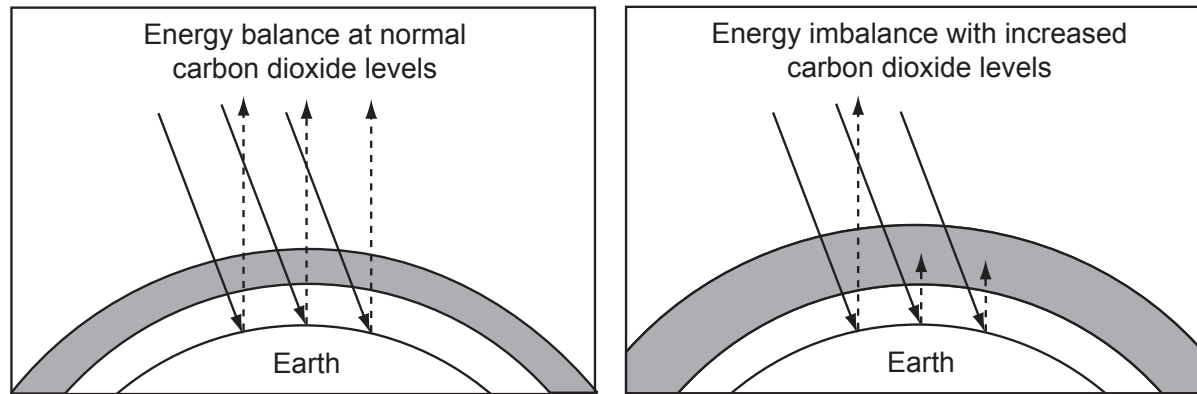


Figure 8(b)

Explain the Greenhouse Effect.

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(4)



(c) Describe some of the possible consequences of global warming.

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