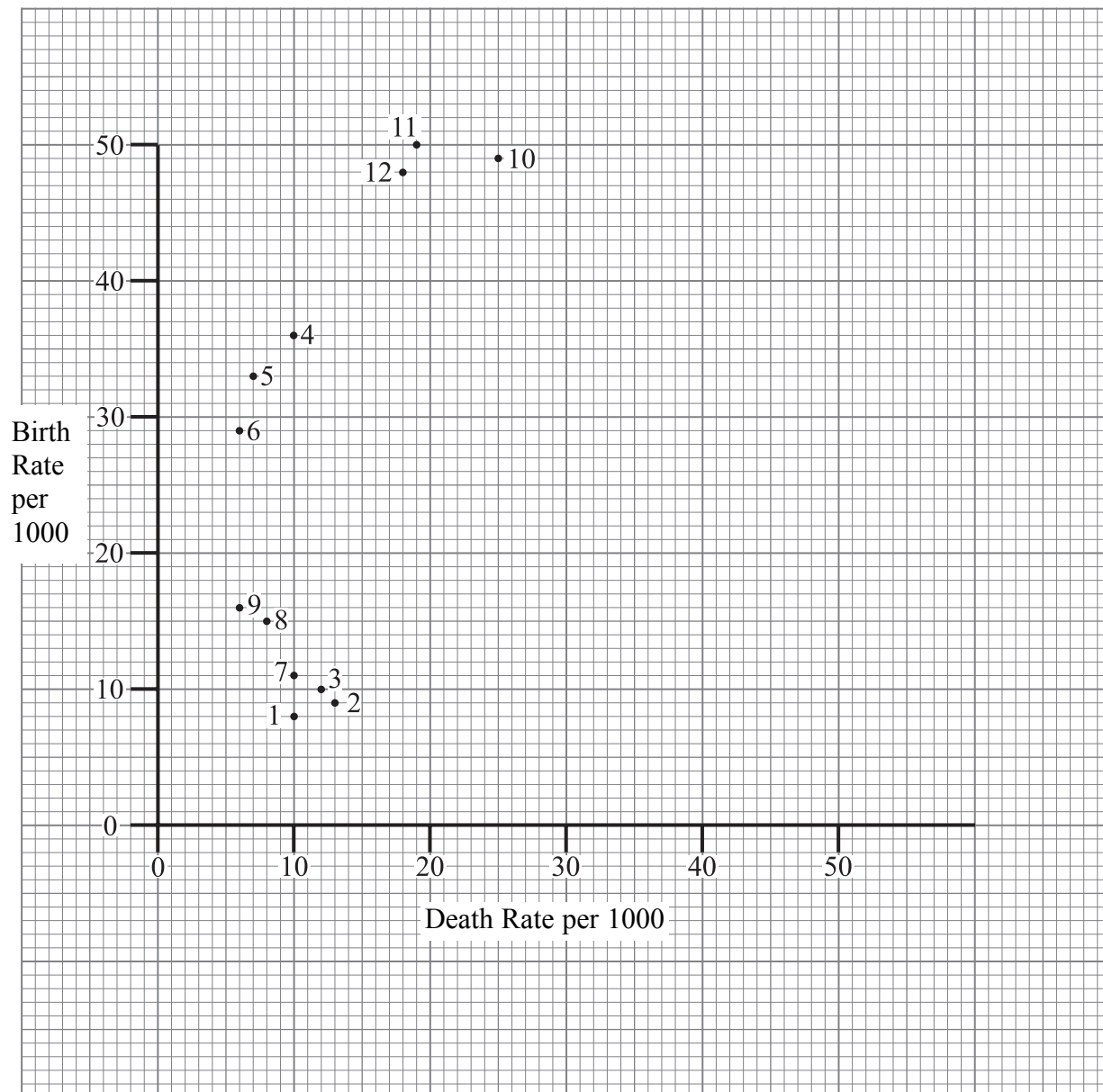


Answer ALL questions

1. (a) Study Figure 1. It shows the birth rates and death rates for some countries.



- | | | |
|-----|------------|-------------------|
| Key | 1. Germany | 7. United Kingdom |
| | 2. Hungary | 8. Ireland |
| | 3. Romania | 9. Mauritius |
| | 4. Bolivia | 10. Sierra Leone |
| | 5. Brazil | 11. Malawi |
| | 6. Ecuador | 12. Ethiopia |

Figure 1



Leave
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(i) Name the country with the highest birth rate.

.....

(1)

(ii) Name a country that has a higher death rate than birth rate.

.....

(1)

(iii) Is there a natural increase or a natural decrease in population in the country named in (ii)?

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(1)

(iv) Suggest which stage of the Demographic Transition Model that countries 4, 5 and 6 are most likely to be in?

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(1)

(v) Give **one** reason for your answer.

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(2)



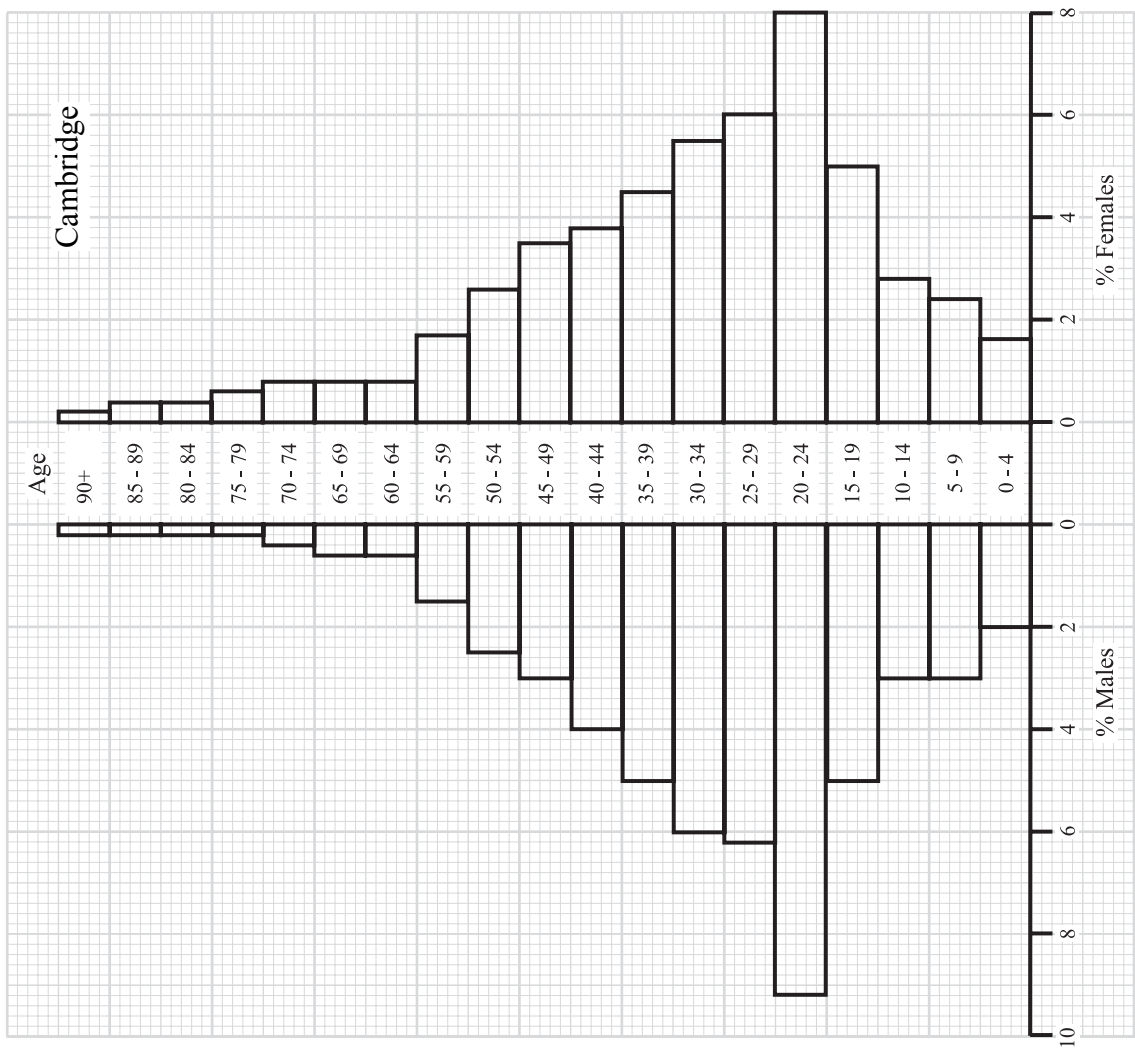
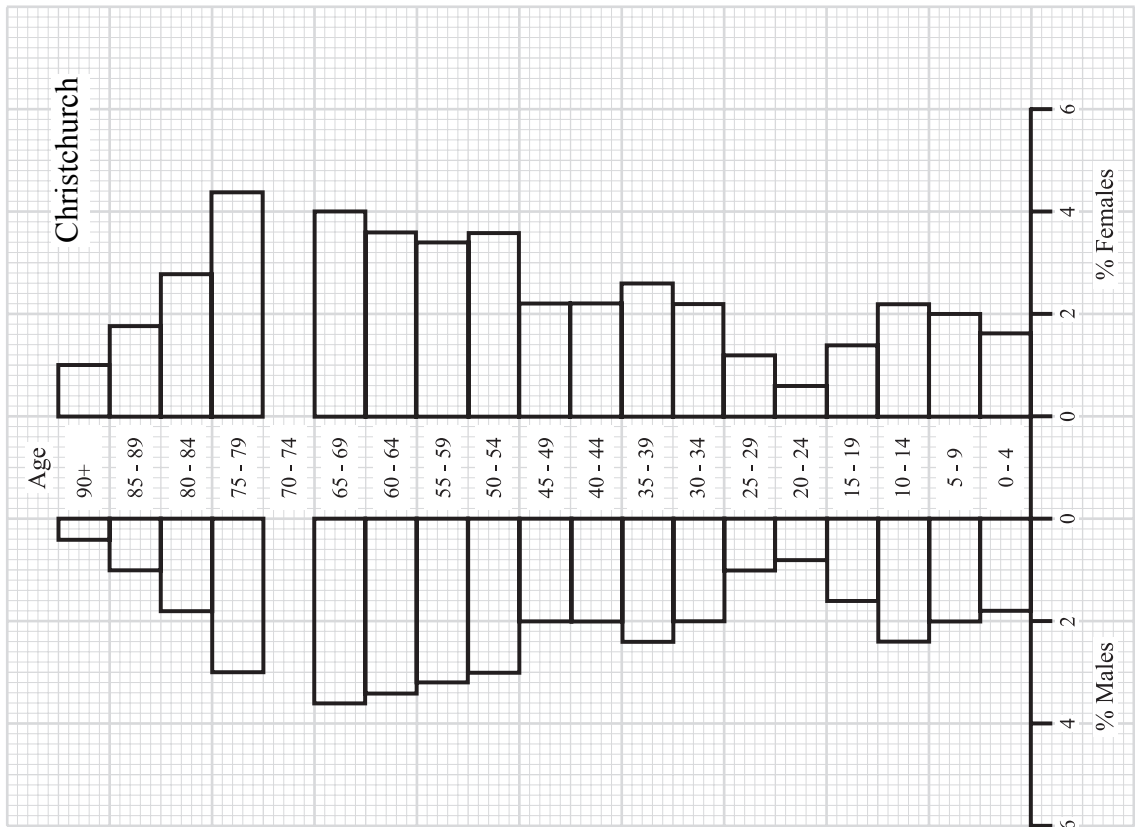


Figure 2

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(b) Study Figure 2. It shows population pyramids for Cambridge, a university town, and for Christchurch, a retirement settlement on the south coast of England.

(i) Complete the pyramid for Christchurch.

Use the data in the table below.

Years	Males	Females
70–74	3.4%	3.8%

(1)

(ii) One of the pyramids has an ageing population.

Which pyramid?

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(1)

(iii) Describe the shape of this pyramid.

Use data in your answer.

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(3)

(iv) The other pyramid has a youthful population.

What advantages are there for an area with a youthful population?

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(2)



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(c) Study the Ordnance Survey (OS) map.

Find Horningsea in grid square 4962 and Bottisham in grid square 5460.

Compare the shape of these two settlements.

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(3)

(d) Study Photograph A in the Map and photograph booklet. It is an aerial photograph of a residential area in Cambridge.

(i) Which housing pattern is shown in photograph A?

Circle the correct answer.

grid iron **cul-de-sac** **crescent**

(1)

(ii) Which grid square is shown in photograph A?

Circle the correct answer.

4460 **4657** **4856** **4458**

(1)

(iii) Give reasons for your answer.

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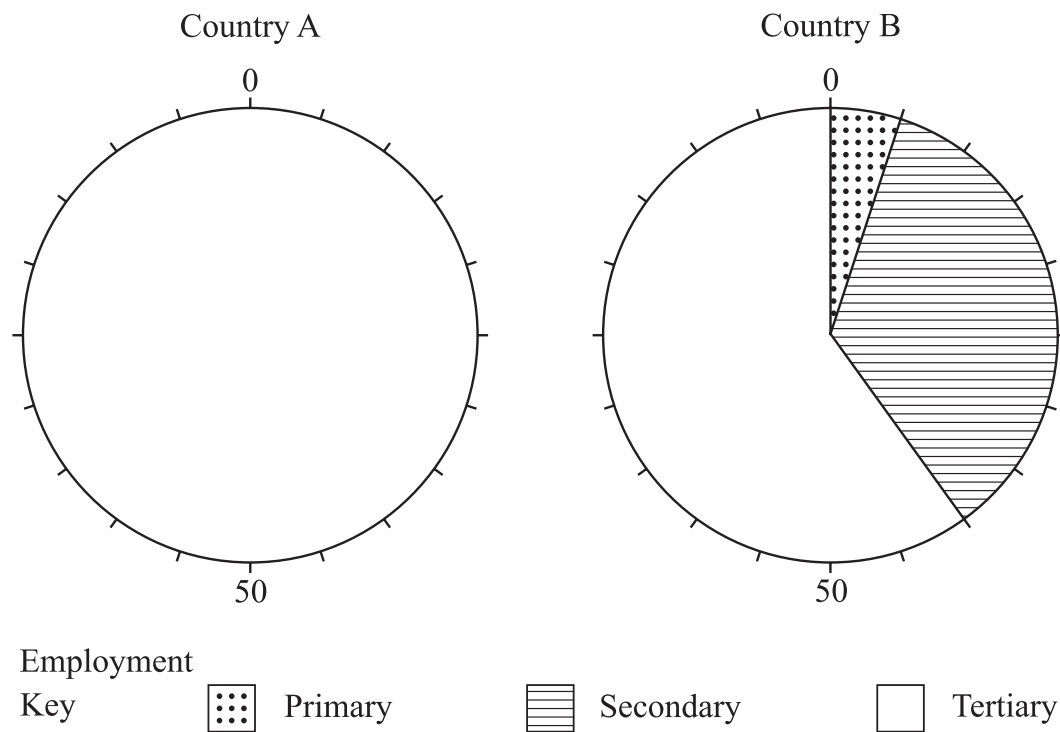
(2)

Q1

(Total 20 marks)



2. (a) Study Figure 3. It shows the percentage employment structure of two countries.



Country	Primary	Secondary	Tertiary
A	85	5	10
B	5	35	60

Figure 3

(i) Complete the graph for Country A using the data in the table. (1)

(ii) Which of the graphs is for an **MEDC**? (1)

(iii) Give **one** reason for your answer to part (ii). (2)



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(b) Study the science park at grid square 4661 on the OS map.

A science park consists of a number of high tech industrial companies.

Explain the factors that have affected the location of the science park.

Use map evidence in your answer.

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(5)



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(c) Study Photograph B and the OS map. The photograph was taken above grid square 4764.

(i) A settlement is marked with the letter A.

What is the name of this settlement?

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(1)

(ii) Three farms are marked with the letters B, C and D.

Which letter represents Punch Farm in grid square 4664?

.....

(1)

(iii) Classify Punch Farm by crossing out the **wrong** words in the sentences below.

Punch farm is a **pastoral** / **arable** farm.

Punch farm is a **commercial** / **subsistence** farm.

(1)

(iv) Justify your answer to part (iii)

Use map and/or photographic evidence in your answer.

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(3)



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blank

(d) There have been many changes in farming in the EU in the last few years. These changes include diversification, set aside and subsidies.

Choose a farm or farming system you have studied in an EU country.

Chosen study

Describe and explain the changes that have taken place.

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(5)

Q2

(Total 20 marks)

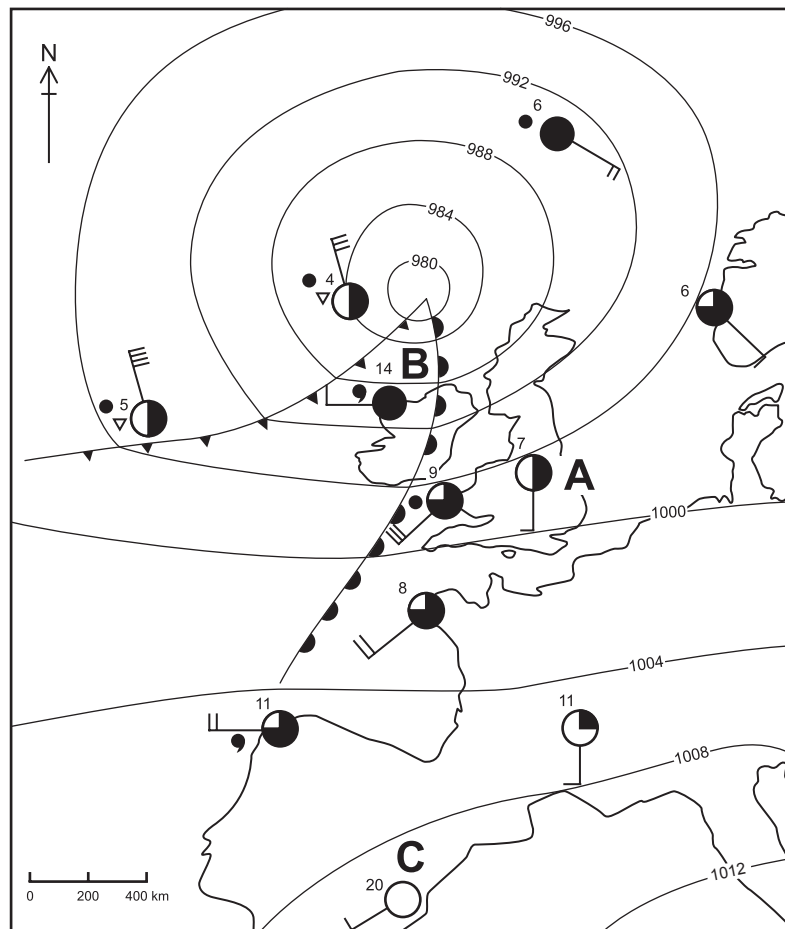


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3. (a) Study Figure 4. It is a weather map for western Europe in March.



Amount of sky covered by clouds (Oktas)	Wind speed (Knots)	Precipitation	Pressure
○ None	○ Calm	≡ Mist	— / — / — Atmospheric pressure (millibars)
◐ 1 or less	—○ 1 - 2	≡≡ Fog	○ 3 Temperature °C
◑ 2	—○ 3 - 7	⋄ Drizzle	Fronts
◒ 3	—○ 8 - 12	▪ Rain	— / —
◓ 4	—○ 13 - 17	⋄* Sleet	— / —
◔ 5	—○ 48 - 52	* Snow	
◕ 6	Add a half feather for each additional 5 knots	▽ Shower	
◖ 7		△ Hail	
◗ 8		⚡ Thunder storm	
⊗ Sky cannot be seen			

Figure 4



(i) The fronts in Figure 4 are not named.
Name them correctly in the key. (1)

(ii) Complete the table below to describe the weather at station B.

Weather feature	Weather condition
Wind direction	
Wind speed	
Cloud cover	
Pressure	
Temperature	
Precipitation	

(3)

(iii) An English family want to go on holiday in March to find better weather.
The weather at C would be suitable for them.

Give two reasons why.

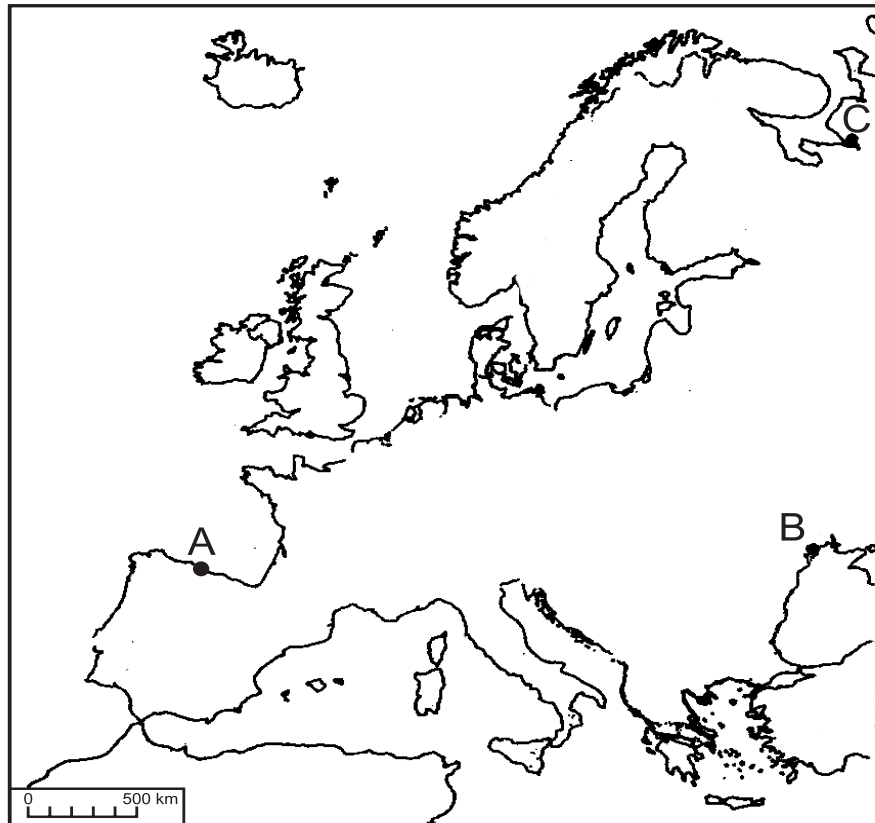
- 1
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- 2
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(2)



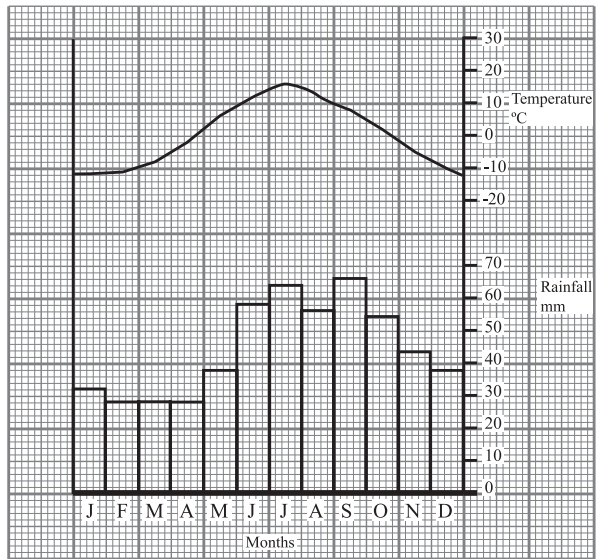
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(b) Study Figure 5. It is a map of Europe showing the location of **three** settlements and **three** climate graphs.



Key • Settlement

Graph 1



Graph 2

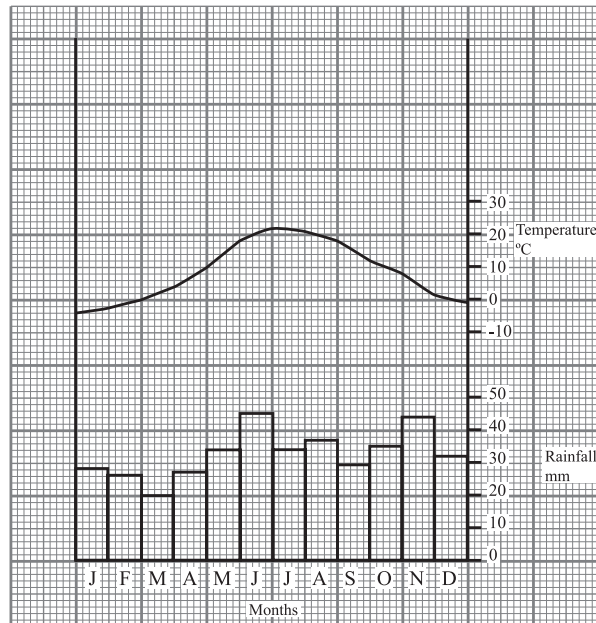


Figure 5



Graph 3

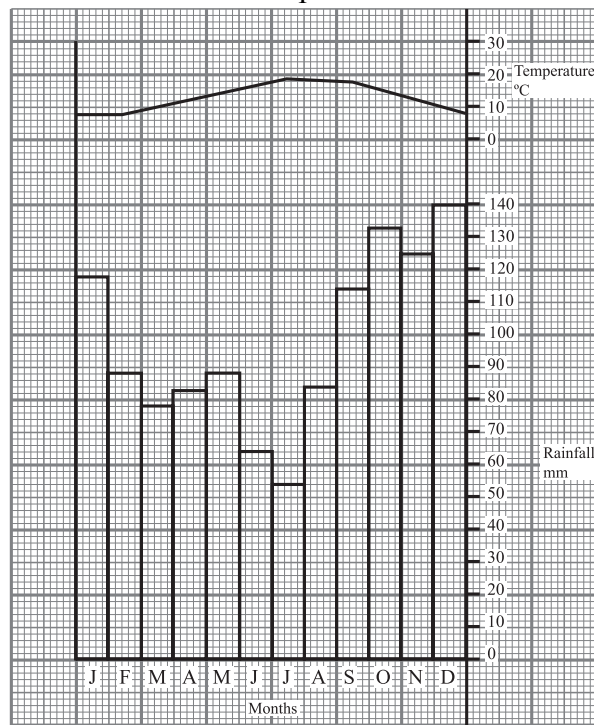


Figure 5 continued

(i) Which graph shows the highest annual rainfall?

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(1)

(ii) Which graph has the greatest temperature range?

.....

(1)

(iii) Find the settlements A, B and C on the map of Europe.

Which of the graphs 1, 2 or 3 shows the climate data for each settlement?

Complete the table below.

Settlement	Graph Number
A	
B	
C	

(2)



(c) Study Figure 6. It is a drawing of a coniferous tree.

(i) Annotate the drawing to explain how the tree has adapted to its environment.

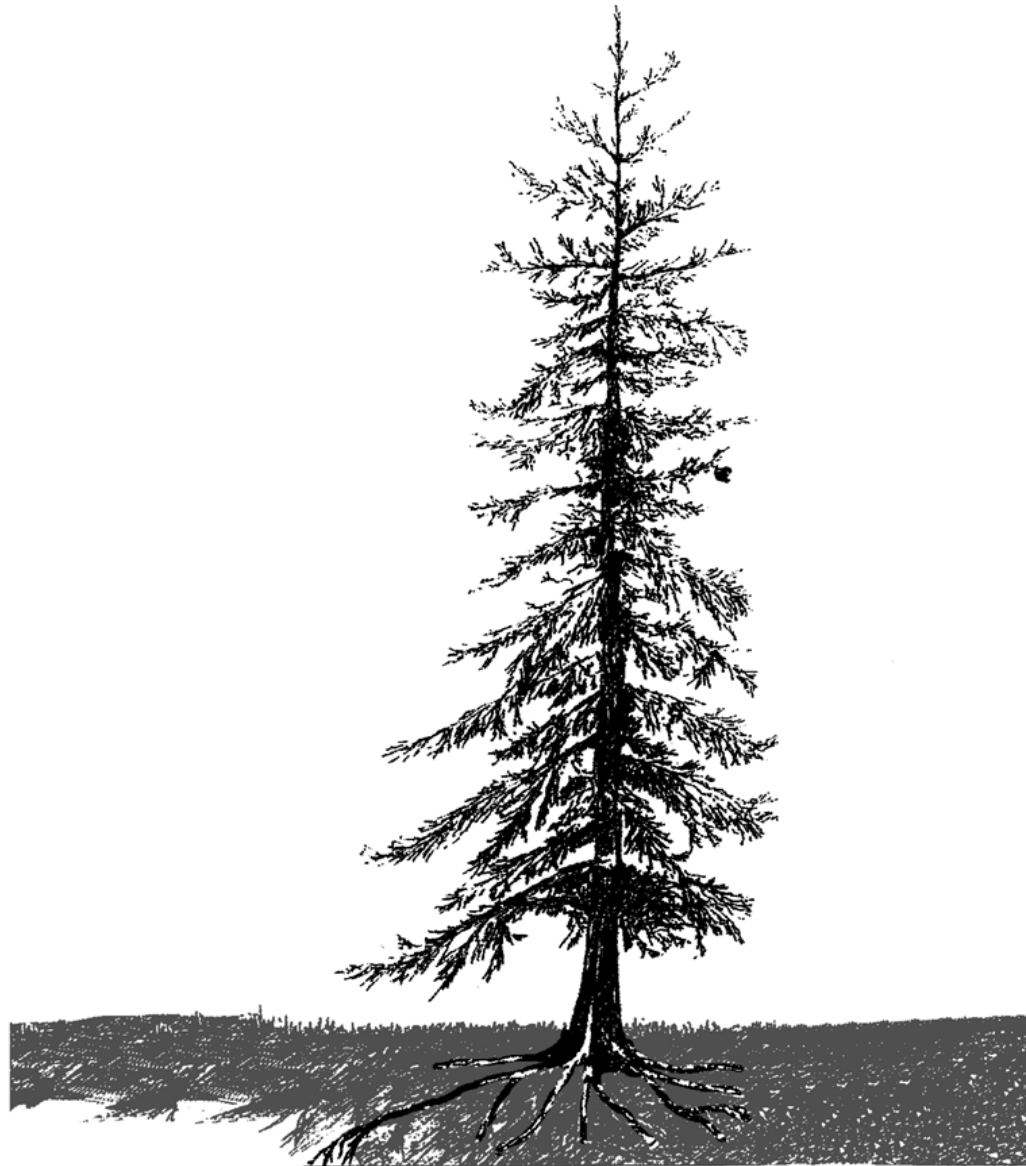


Figure 6

(4)



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(ii) The tropical rainforest can be exploited, conserved or sustainably developed.

Choose an area or areas of tropical rainforest you have studied.

Chosen rainforest area(s)

Describe and explain how the rainforest has been exploited

and

the ways in which it could be, or has been, sustainably developed

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(6)

Q3

(Total 20 marks)



4. (a) Study the map of Lochranza and Photograph C in the Map and photograph booklet.

(i) Photograph C was taken from point A on the map of Lochranza.

In which direction was the camera pointing?

.....

(1)

(ii) Two leisure facilities are marked with the numbers 1 and 2 on the photograph. What is each leisure facility?

Use the map to help you.

1

2

(2)

(iii) Name **one** primary employment which could be carried out in this valley.

.....

(1)

(iv) The valley in Photograph C was formed by ice.

Describe the shape of the valley.

Use evidence from the map and/or Photograph C.

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(3)



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(v) Look again at the map of Lochranza. Photograph C was taken from point A, which is in Glenn Easan.

Glenn Easan is a hanging valley.

What is a hanging valley **and** how is a hanging valley formed?

You may use a diagram, or diagrams, in your answer.

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(4)



(b) Find the River Chalmadale on the map.

The figures in the table show river data collected by a field study group.

The figures are for eight sites marked on the River Chalmadale.

Site	Width (m)	Gradient (°)	Average depth (cm)	Discharge (Cumeecs)
1	0.4	8	4	0.01
2	0.8	7	3	0.02
3	1.5	6	5	0.02
4	2.9	4	6	0.04
5	4.5	3	8	0.05
6	5.6	2	10	0.08
7	7.2	1	12	0.10
8	8.0	1	15	0.18

(i) In which direction is the River Chalmadale flowing?

Circle the correct answer

north west south east north south

(1)

(ii) Describe the changes which occur in the characteristics of the River Chalmadale as it flows from site 1 to site 8.

Use data in your answer.

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(3)



Leave blank

(c) The feature at grid reference 933507 is a spit.
Explain how a spit is formed.
You may use a diagram, or diagrams, in your answer.

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(5)

(Total 20 marks)

Q4

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TOTAL FOR PAPER: 80 MARKS

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