Write your name here

Surname	Other names

Centre Number | Candidate Number

Edexcel GCSE

Geography B

Unit 1: Dynamic Planet

Foundation Tier

Monday 14 June 2010 – Morning
Time: 1 hour

Paper Reference
5GB1F/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- In Section **A**, answer **ALL** questions.
- In Section **B**, answer **either** question **5** or **6**.
- In Section **C**, answer **either** question **7** or **8**.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
  – *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Check your answers if you have time at the end.

Turn over ▶

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H 3 7 0 8 7 A 0 1 2 0

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SECTION A – INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions.

Topic 1: Restless Earth

1 Look at Figure 1.

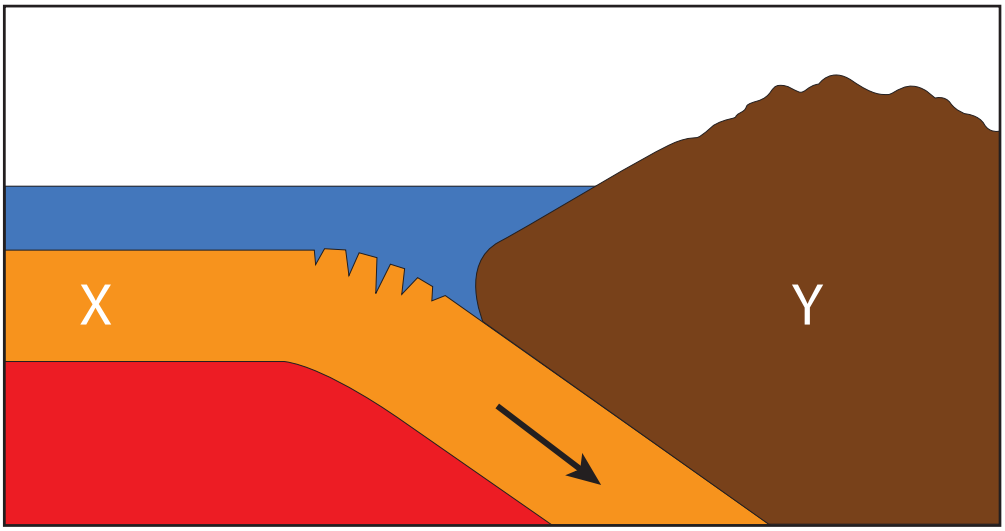

Figure 1 – A plate boundary

(a) (i) What type of plate boundary is shown in Figure 1?

(1)

- ☒ **A** destructive
- ☒ **B** constructive
- ☒ **C** conservative
- ☒ **D** parallel

(ii) Which plate, **X** or **Y**, is a continental plate?

(1)

.....

(b) Oceanic and continental crusts are different.

Complete the sentence below using **two** of the following words.

(2)

thicker **thinner** **granitic** **basaltic**

Oceanic crust is usually ..... than continental crust and it is

mainly made of ..... rocks.

(c) Describe **two** ways a region affected by earthquakes can prepare for this hazard.

(4)

1 .....

.....

.....

.....

2 .....

.....

.....

.....

(Total for Question 1 = 8 marks)

2 Look at Figure 2.

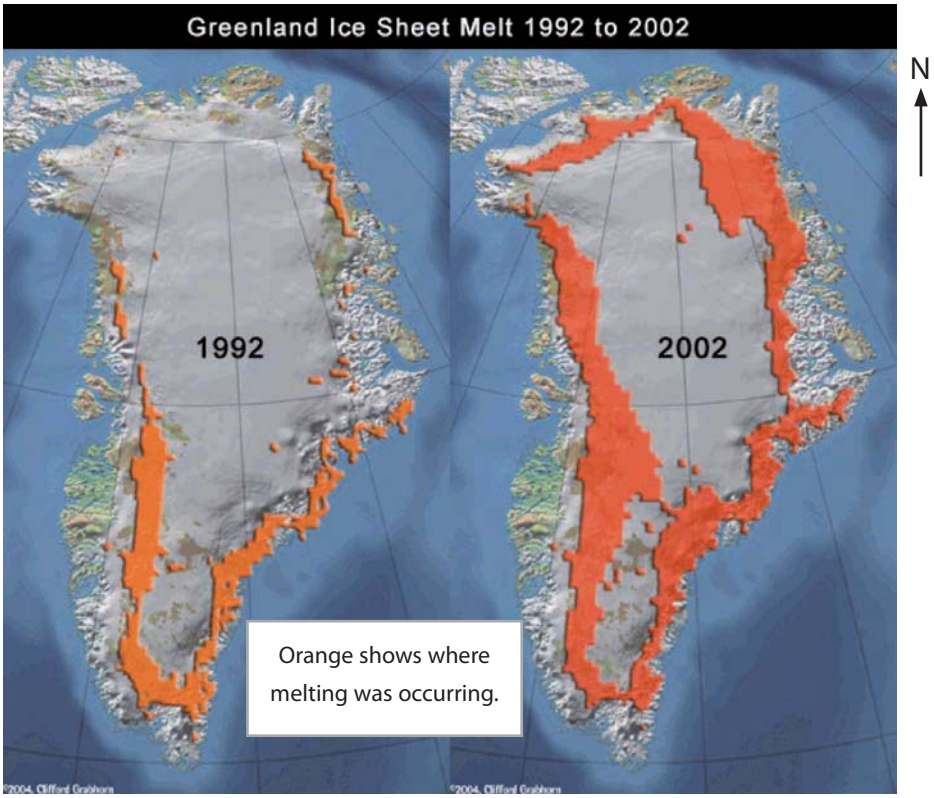

Figure 2 – Greenland's melting ice sheet

(a) (i) Which of the following best describes the changes in Greenland's ice sheet?

(1)

- ☒ **A** More ice was melting in 1992 than in 2002
- ☒ **B** The area of melting has increased rapidly since 1992
- ☒ **C** Melting has increased only in the south of Greenland
- ☒ **D** The area of melting has stayed the same

(ii) Give **one** impact of melting ice sheets on the environment.

(1)

.....

.....

(b) State **two** possible impacts of climate change in the UK.

(2)

1 .....

.....

2 .....

.....

(c) Describe **two** natural causes of climate change.

(4)

1 .....

.....

.....

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2 .....

.....

.....

.....

(Total for Question 2 = 8 marks)

3 Look at Figure 3.

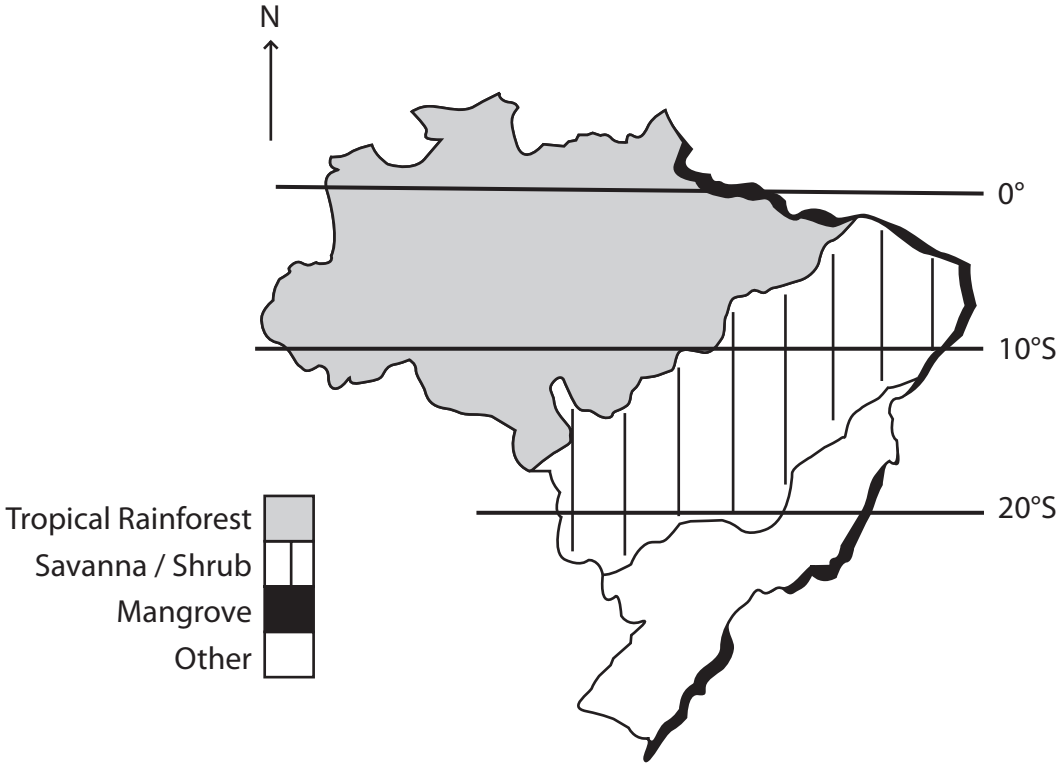


Figure 3 – Biome distribution in Brazil

(a) (i) What is the main vegetation type between 0° and 10° south?

(1)

- ☒ **A** Mangrove
- ☒ **B** Savanna
- ☒ **C** Tropical rainforest
- ☒ **D** Desert

(ii) Complete the sentence below using **two** of the following words.

(2)

high **pole** **equator** **low**

Tropical rainforests are found in areas of ..... rainfall and

are located close to the ..... .

(b) Give **one** service provided by the biosphere.

(1)

.....

.....

(c) Describe **two** ways of conserving threatened environments.

(4)

1 .....

.....

.....

.....

2 .....

.....

.....

.....

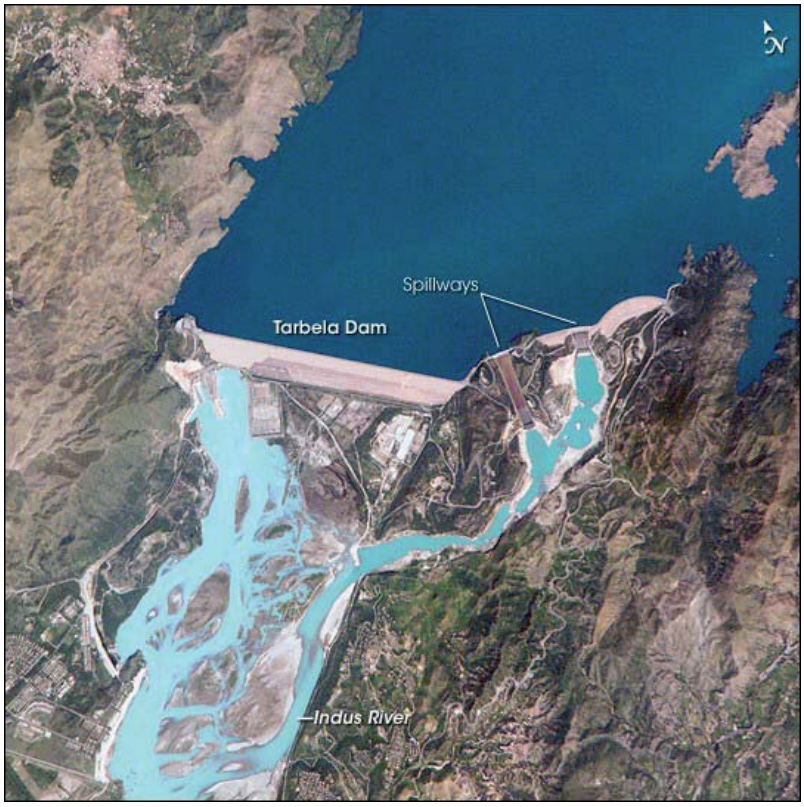
(Total for Question 3 = 8 marks)

4 Look at Figure 4.

Reduced water

Loss of farmland

Habitats for fish and birds



Sediment build-up

Hydroelectric Power

Increased humidity

Figure 4 – Impacts of the Tarbela Dam (Pakistan)

(a) Using Figure 4, identify **two** benefits created by the Tarbela Dam (a large scale water management project).

(2)

1 .....

2 .....

(b) Give **two** effects of water pollution.

(2)

1 .....

.....

2 .....

.....

(c) Describe **two** impacts of water shortages on people.

(4)

1 .....

.....

.....

.....

2 .....

.....

.....

.....

(Total for Question 4 = 8 marks)

TOTAL FOR SECTION A = 32 MARKS

SECTION B – SMALL SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 5: Coastal Change and Conflict

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

5 Look at Figure 5a.

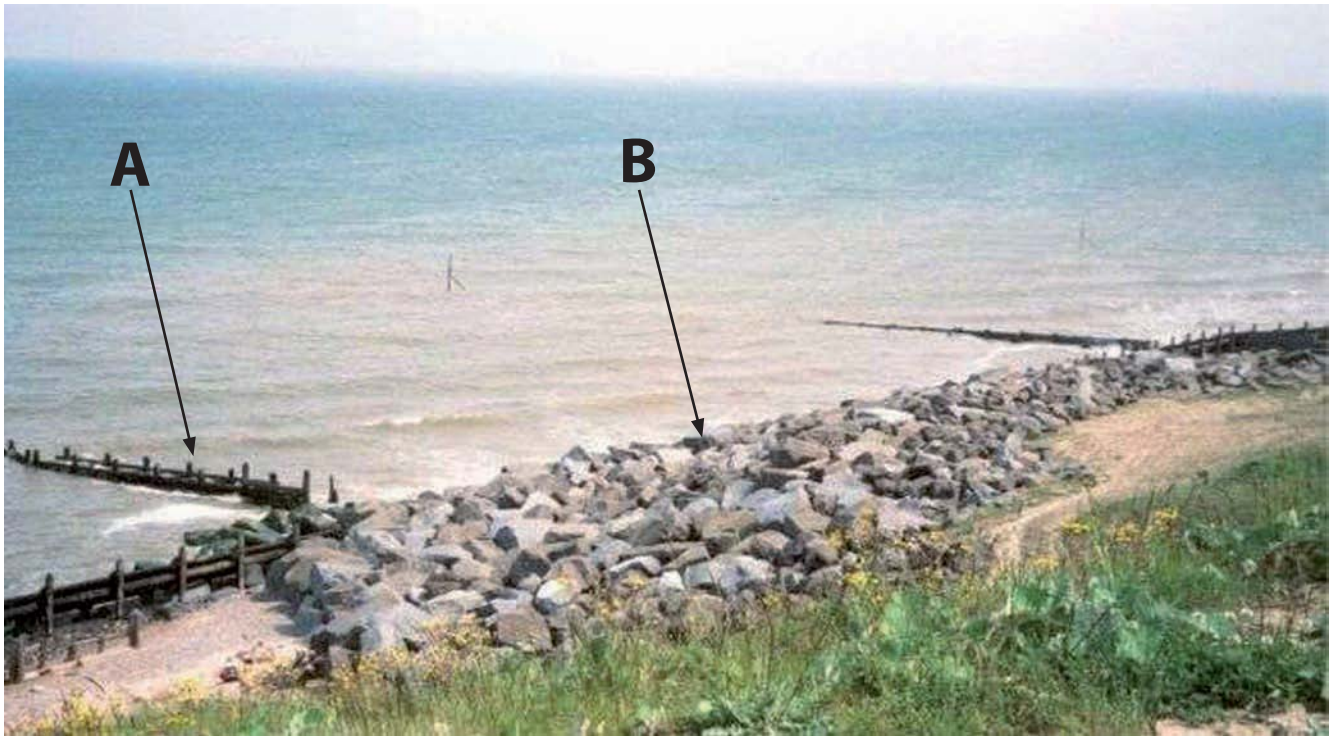


Figure 5a – Methods of coastal management

(a) Name the methods of coastal management shown at **A** and **B**.

Choose from the four methods below.

rock armour (rip rap) **sea wall** **groyne** **beach replenishment**

(2)

A:

B:

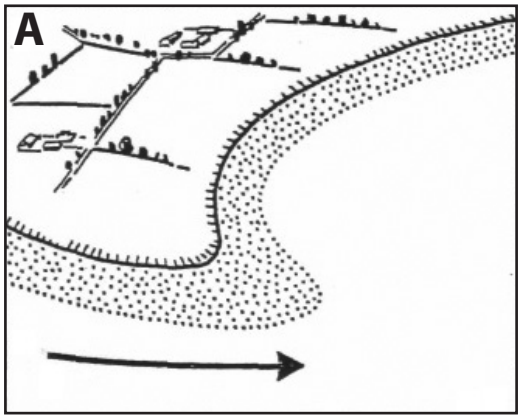
(b) Name the physical process that moves beach material along the coastline.

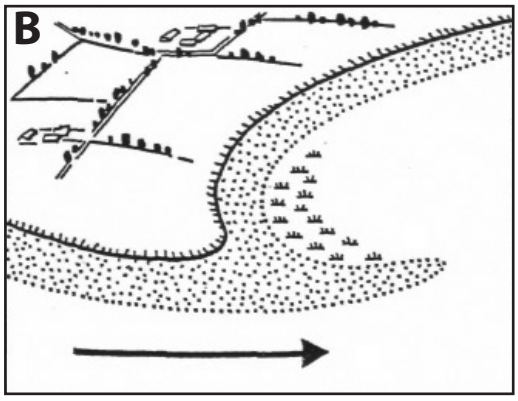
(1)

.....

*(c) Explain the formation of a spit. Use Figure 5b to help your answer.

(6)





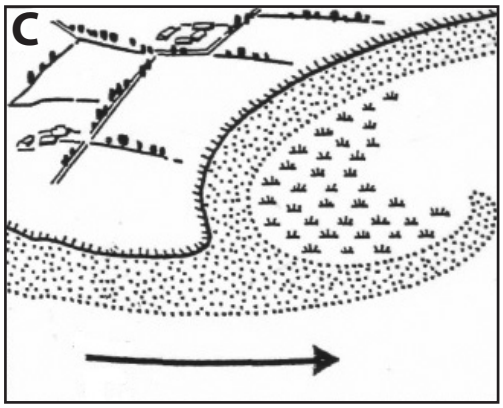


Figure 5b – Spit formation

(Total for Question 5 = 9 marks)

Topic 6: River Processes and Pressures

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

6 Look at Figure 6a.

Method A	Method B
	

Figure 6a – Flood management: methods of hard engineering

(a) Name the methods of flood management shown in **A** and **B**.

Choose from the four methods below.

overflow channel **channel deepening** **flood gates** **levees**

(2)

A:

B:

(b) Name **one** physical process by which rivers erode their channel.

(1)

.....

***(c)** Describe how the shape and characteristics of river channels change from source to mouth. Use Figure 6b to help your answer.

(6)

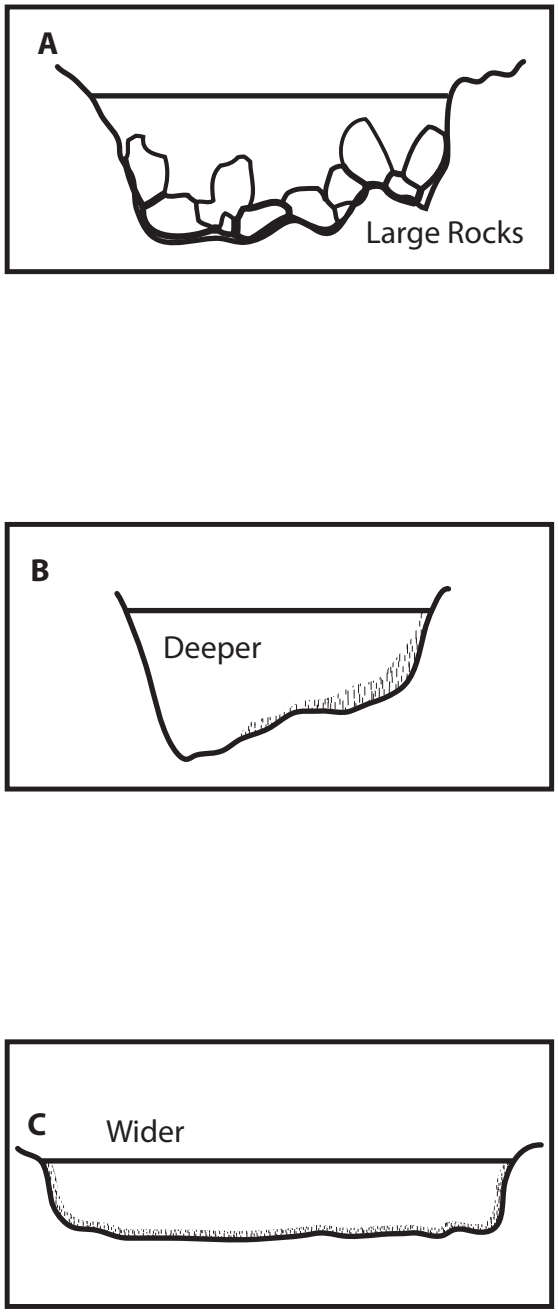


Figure 6b – Channel change

(Total for Question 6 = 9 marks)

TOTAL FOR SECTION B = 9 MARKS

SECTION C – LARGE SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 7: Oceans on the Edge

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

7 Look at Figure 7.

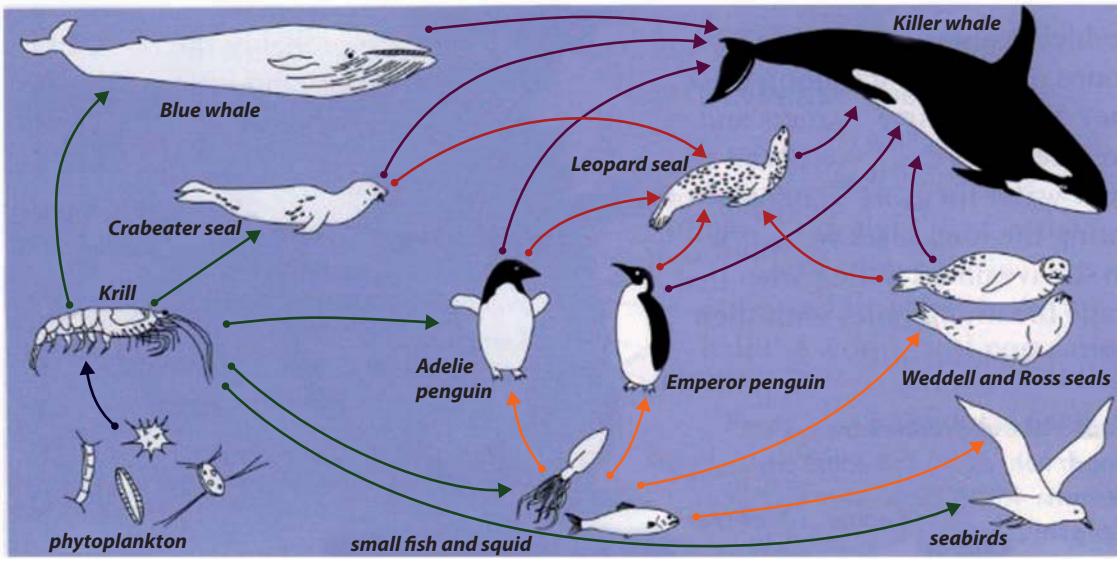


Figure 7 – A food web

(a) Why would a decline in krill affect the blue whale population?

(1)

.....

.....

(b) For a named marine ecosystem, describe **one** way it has been damaged.

(2)

Marine ecosystem: .....

.....

.....

.....

.....

*(c) Using examples, describe how marine ecosystems can be managed sustainably.

(6)

(Total for Question 7 = 9 marks)

Topic 8: Extreme Environments

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

Chosen extreme climate: Polar ☒ **or** Hot arid ☒

8 Look at Figure 8.

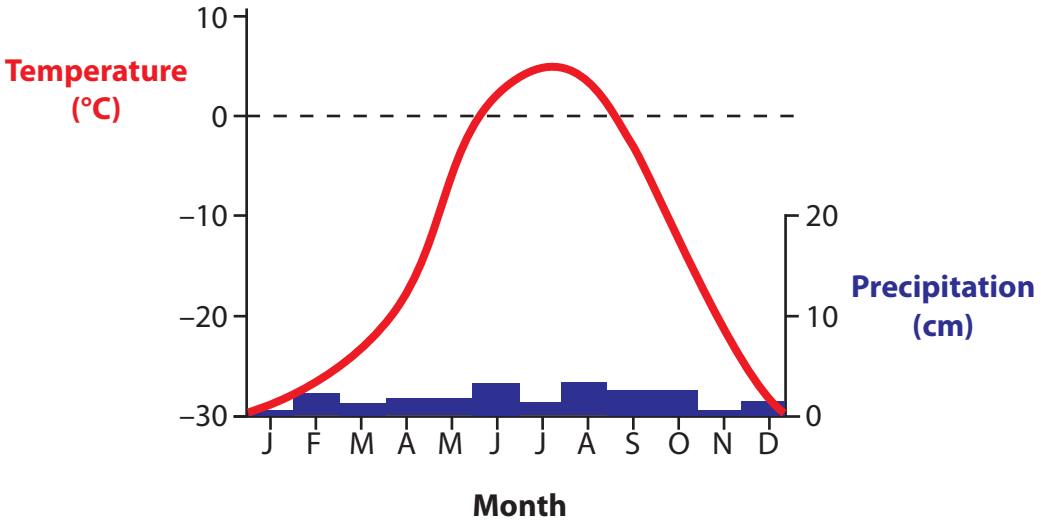


Figure 8 – Climate graph for Barrow in Alaska

(a) Which month has the highest temperature?

(1)

Month:

(b) State **two** problems faced by people living in areas of extreme climate.

(2)

1 .....

.....

2 .....

.....

*(c) For a named hot arid or polar region, describe how climate change could threaten people and natural systems.

(6)

Name of region: .....

(Total for Question 8 = 9 marks)

TOTAL FOR SECTION C = 9 MARKS
TOTAL FOR PAPER = 50 MARKS

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