

**GENERAL CERTIFICATE OF SECONDARY EDUCATION**

**GEOGRAPHY A**

Extreme Environments (Foundation Tier)

**A671/01**

Candidates answer on the Question Paper

**OCR Supplied Materials:**

- An Insert (A671/01/02/I – inserted)

**Other Materials Required:**

None

**Monday 14 June 2010**

**Morning**

**Duration: 1 hour**



Candidate  
Forename

Candidate  
Surname

Centre Number

Candidate Number

**MODIFIED LANGUAGE**

**INSTRUCTIONS TO CANDIDATES**

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.

**INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is **50**.
- You will be awarded marks in questions 2(b) and 4(a)(iii) for the quality of written communication of your answer.
- This document consists of **16** pages. Any blank pages are indicated.



**Section A – Hot Deserts and Extreme Environments generally**

Answer **all** questions.

**1 (a)** Study Fig. 1.



**Fig. 1 Location map of Mojave Desert**

Complete the sentences to describe the location of the Mojave Desert.  
Choose your answers from the list below.

**100                  South west                  250                  Utah                  Mexico                  North east**

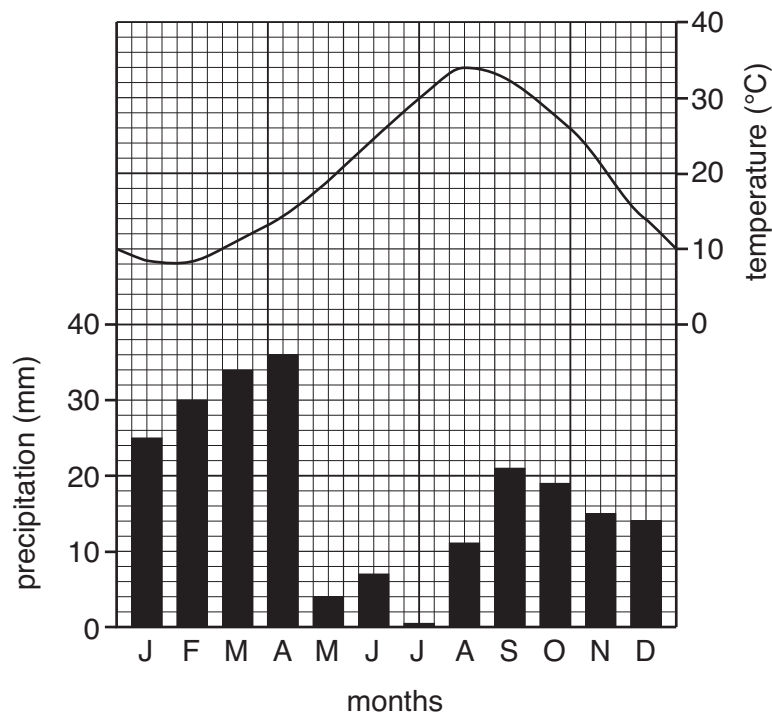
The Mojave Desert is in the ..... of the USA.

It is in the states of Arizona, California, Nevada and .....

The closest the desert is to the Pacific Ocean is ..... km.

**[3]**

**(b)** Study Fig. 2.



**Fig. 2 Climate graph of Mojave Desert**

**(i)** State the average temperature in the Mojave Desert in August.

..... °C **[1]**

**(ii)** Suggest how temperatures in the day are likely to differ from temperatures at night in the Mojave Desert in August.

.....  
..... **[1]**

**(iii)** Estimate the average annual precipitation in the Mojave Desert.

Circle the correct answer.

**63 mm**

**110 mm**

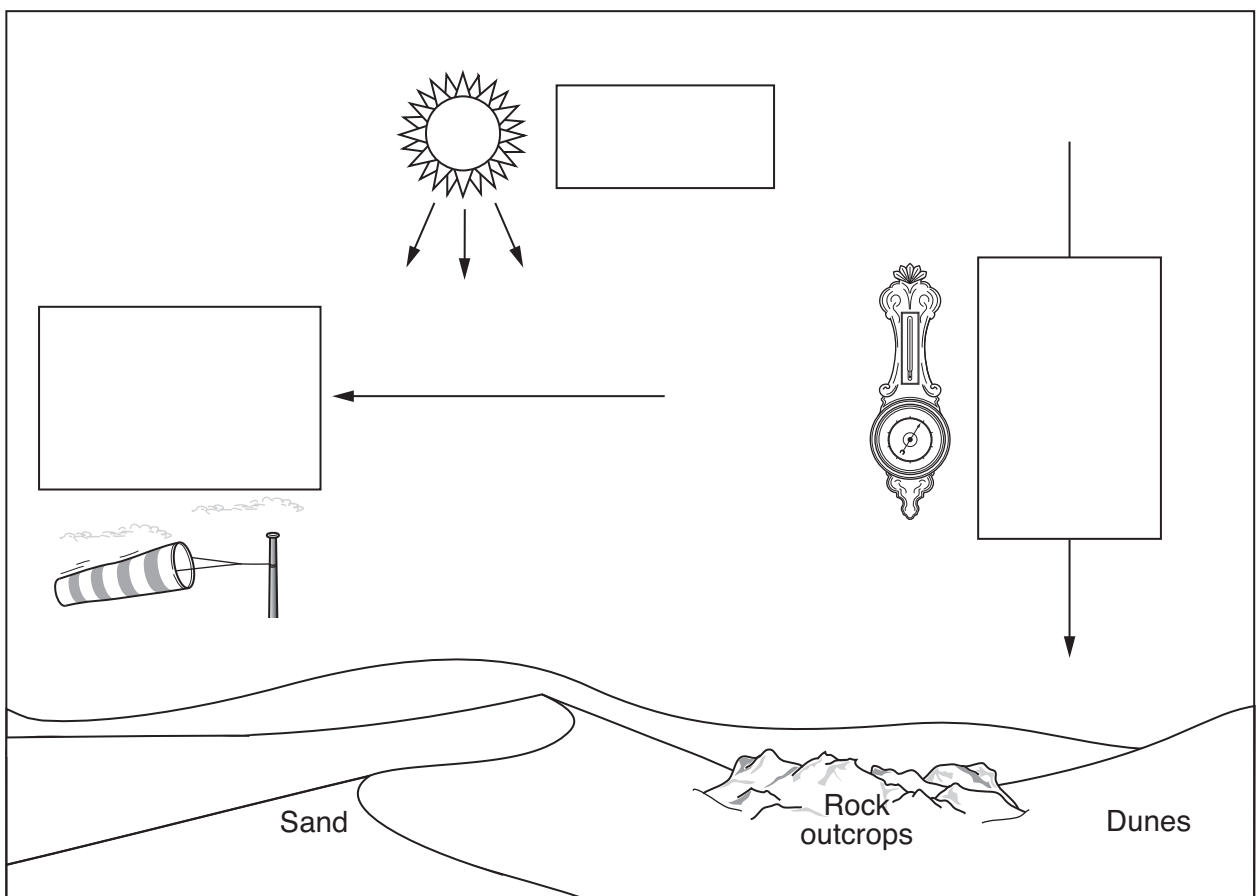
**216 mm**

**342 mm**

**[1]**

(c) The climate in a desert is hot and dry. Choose **three** of the following statements to help explain why. You should write the letters of the statements in the correct boxes on the diagram below.

- A Deserts are on the Equator, so they are hot and dry.
- B The sun shines from a high angle in the sky, so temperatures are high.
- C Low pressure and rising air makes deserts very hot.
- D Winds blow over large areas of land before they reach the desert, so they become dry.
- E High pressure and sinking air lead to dry weather.
- F The high temperatures make the winds dry.



[3]

(d) Study Photographs A and B in the separate Insert. These photographs were taken in hot desert areas.

(i) Using **only** evidence in the photographs, describe the vegetation shown.

.....

.....

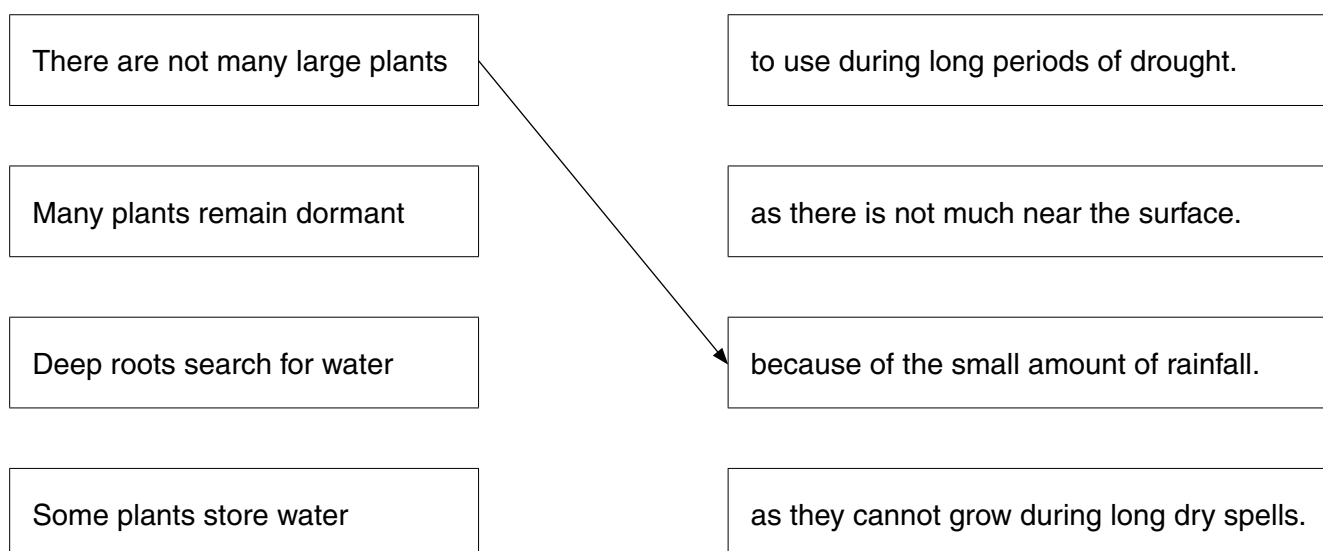
.....

.....

.....

..... [3]

(ii) Use arrows to match the correct beginnings and endings of these sentences. They explain how the natural vegetation of hot deserts can survive in the hot, dry climate. The first one has been done for you.



[3]

[Total: 15]

**2** Study Photos C, D and E in the separate Insert.

- (a)** The photographs show different groups of people using areas of hot desert. Identify the people using the desert shown in each photograph by writing C, D and E in the correct places in the table below.

Use of hot desert	Photograph
Indigenous nomadic tribes	
Adventure tourists	
Multi-national companies	

**[2]**

- (b)** Using Photographs C, D and E and your own knowledge, describe how different groups of people use hot deserts.

[6]

- (c) Give **two** reasons why hot deserts are challenging environments for people who live and work there.

1 .....

.....

.....

2 .....

.....

..... [2]

[Total: 10]

[Section A Total: 25]

### Section B – Your chosen extreme environment

Answer **all** questions. Your answers in this section must refer to **either** a polar **or** a mountain environment.

- 3 (a) Circle the extreme environment which you have studied.

Polar

Mountain

Mark with an arrow and name the polar **or** mountain environment which you have studied on the world map below.



[2]

- (b) Describe how your chosen environment is extreme using the following headings:

Climate

.....

.....

.....

.....

Landscape

.....

.....

.....

.....



## Accessibility

.....

.....

.....

..... [5]

- (c) Name and describe **one** landform or physical feature which occurs in your chosen extreme environment.

You may draw a labelled diagram to help you.

Landform or physical feature .....

Description .....

.....

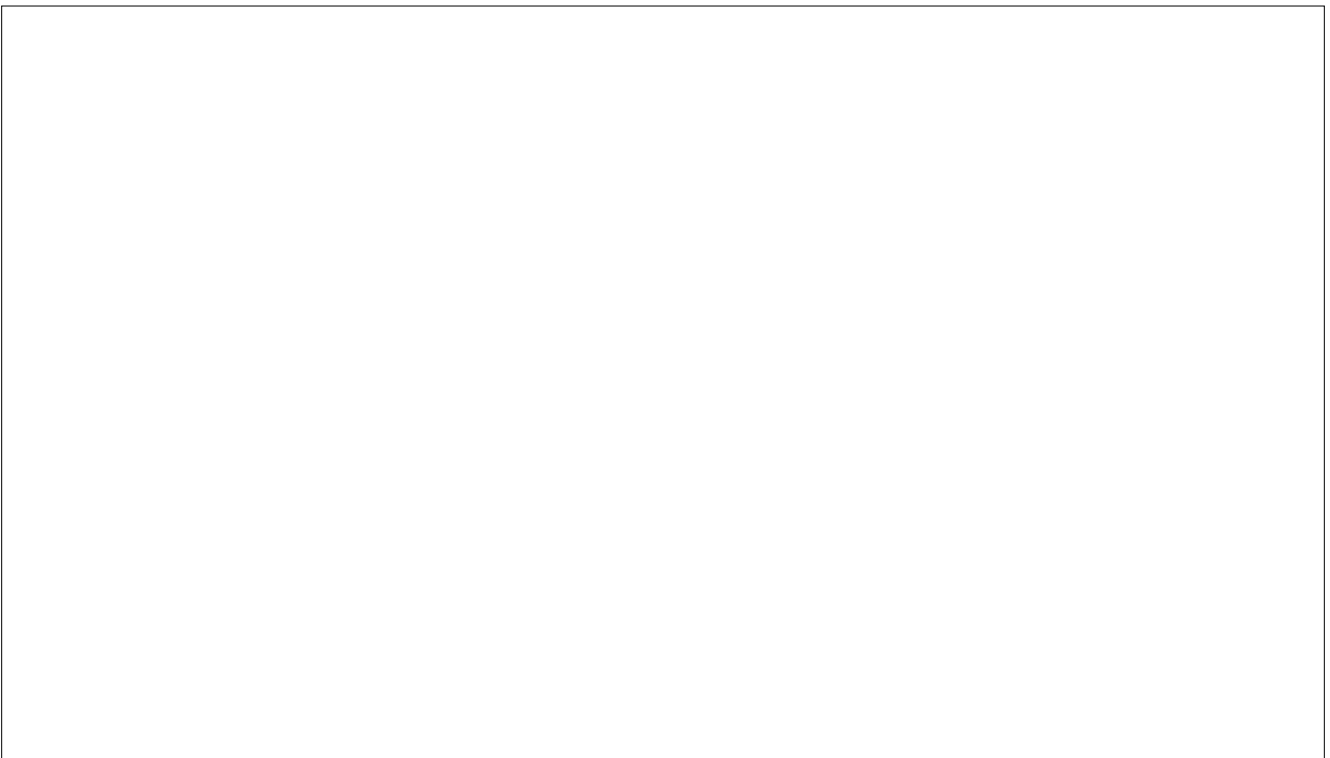
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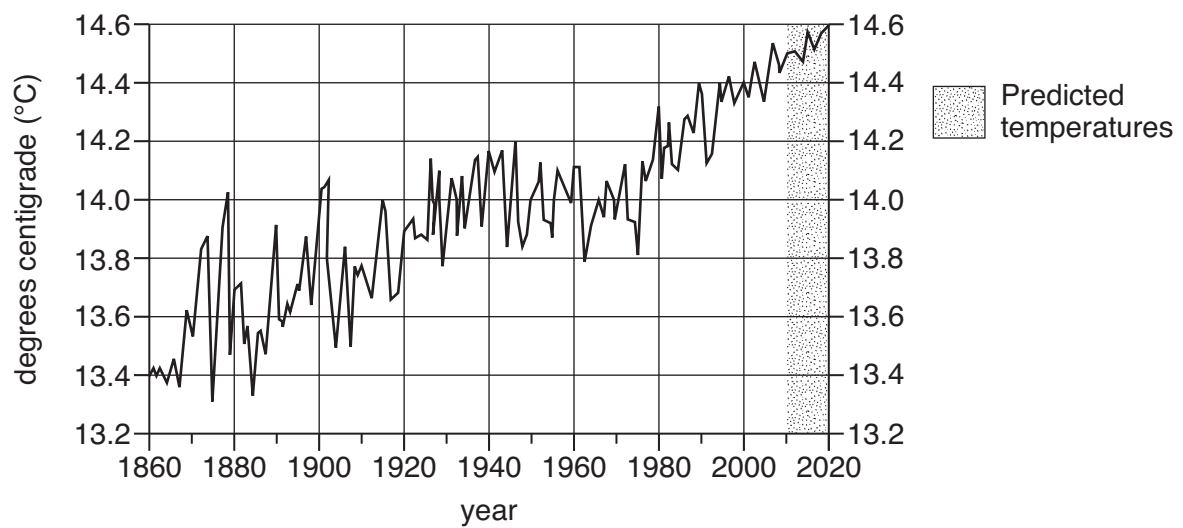


[5]

[Total: 12]

Turn over

## 4 (a) Study Fig. 3.



**Fig. 3 Average temperatures at the earth's surface**

- (i) What is the predicted average temperature in 2010?

..... °C [1]

- (ii) Describe how the average temperatures at the earth's surface have changed between 1860 and 2010.

.....

.....

.....

..... [2]

- (iii) Suggest ways that the predicted change in average temperature may impact on the natural environment of the polar or mountain area you have studied.

.....

.....

.....

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.....

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.....

.....

..... [6]

- (b) Climate change is one change which may affect extreme environments.  
Describe **one other** change which might happen in the polar or mountain area which you have studied.  
Explain how this change is likely to affect the people and/or the environment.

Description of change

.....

.....

Effect of change on people and/or environment

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

[Total: 13]

[Section B Total: 25]

**Additional Pages:**

If you use the following lined pages to complete the answer(s) to any question(s), you must clearly show the question number(s).

[illegible]



**15**  
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