

**GENERAL CERTIFICATE OF SECONDARY EDUCATION**

**GEOGRAPHY A**

Extreme Environments (Foundation Tier)

**A671/01**

Candidates answer on the Question Paper

**OCR Supplied Materials:**

- An Insert (A671/01/02/1 – inserted)

**Other Materials Required:**

None

**Monday 14 June 2010**

**Morning**

**Duration: 1 hour**



Candidate  
Forename

Candidate  
Surname

Centre Number

Candidate Number

**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.



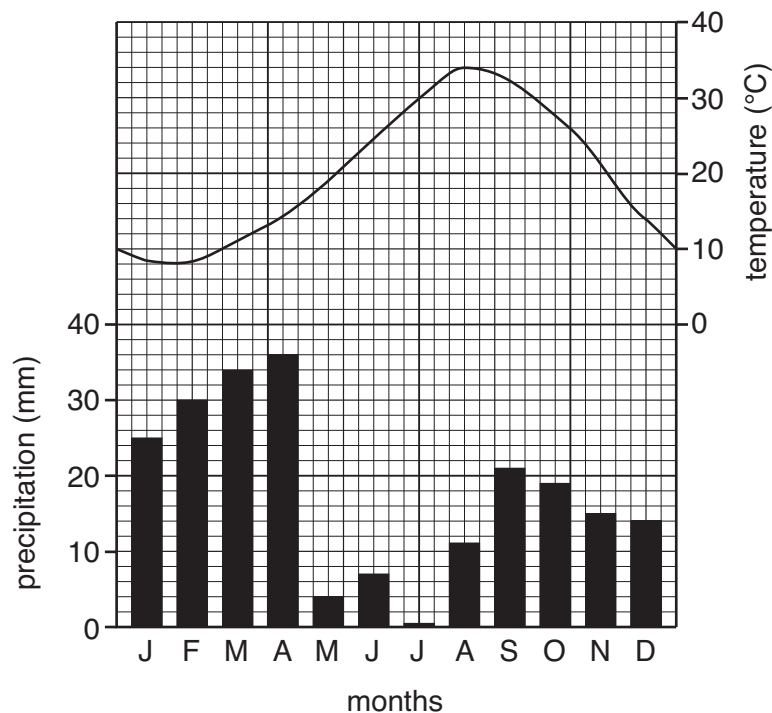
**Fig. 1 Location map of Mojave Desert**

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 ..... At its closest point it is ..... km from the Pacific Ocean. [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]

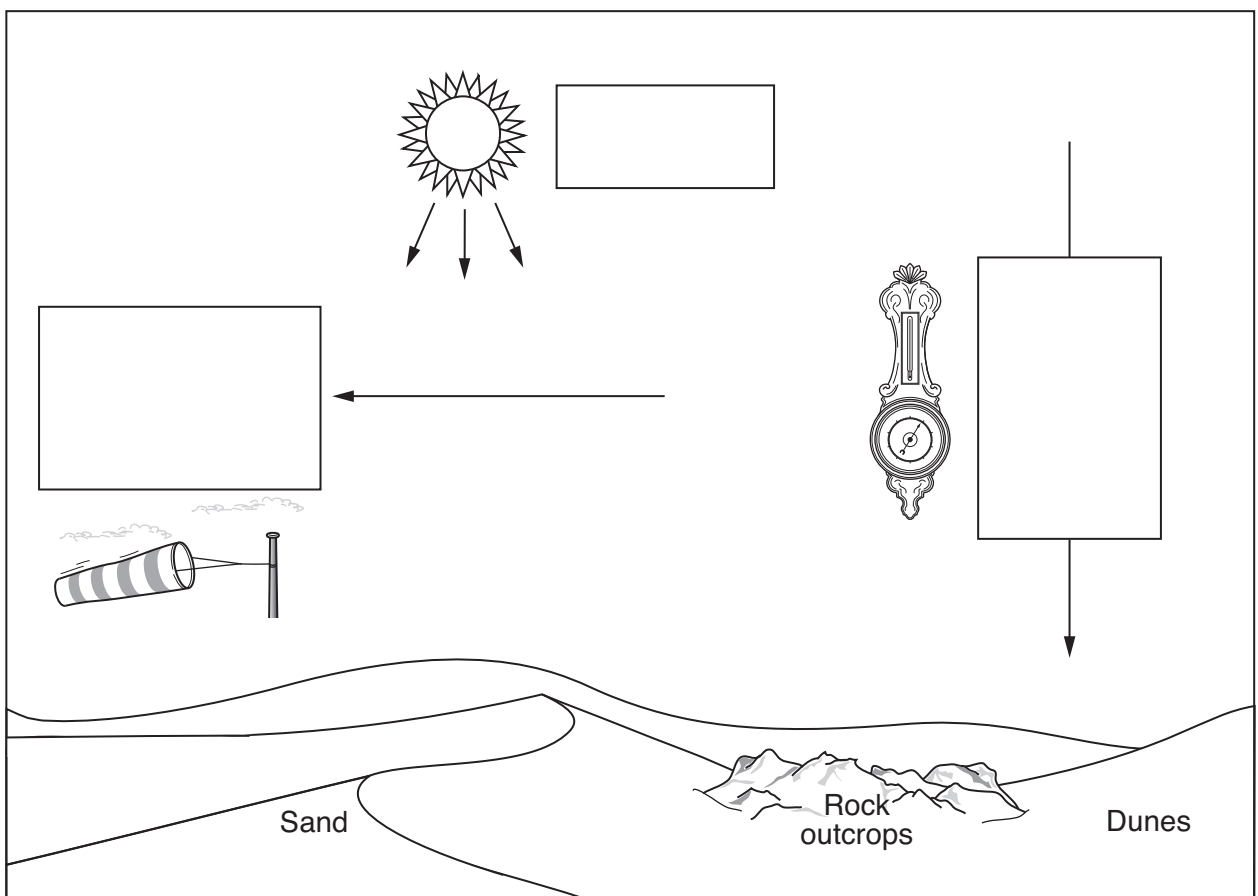
(iii) Estimate the average annual precipitation in the Mojave Desert.

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 it very hot.
- D Winds blow over large areas of land before reaching the desert so they become dry.
- E High pressure and sinking air results in dry weather.
- F The high temperatures make the winds dry.



[3]

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

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

.....

.....

.....

.....

.....

..... [3]

(ii) Explain how the natural vegetation of hot deserts can survive the hot, dry climate. You should complete the sentences by using arrows to match the correct beginnings and endings.

The first sentence has been done for you.

There are not many large plants	to use during long periods of drought.
Many plants remain dormant	as there is not much near the surface.
Deep roots search for water	because of the small amount of rainfall.
Some plants store water	as they cannot grow during long dry spells.

[3]

[Total: 15]

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

- (a)** The photographs show areas of hot desert being used by different groups of people. Identify the users of the desert shown in each photograph. Fill in the table below with each of the letters C, D and E.

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 hot deserts are used by different groups of people.

[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 .....

.....

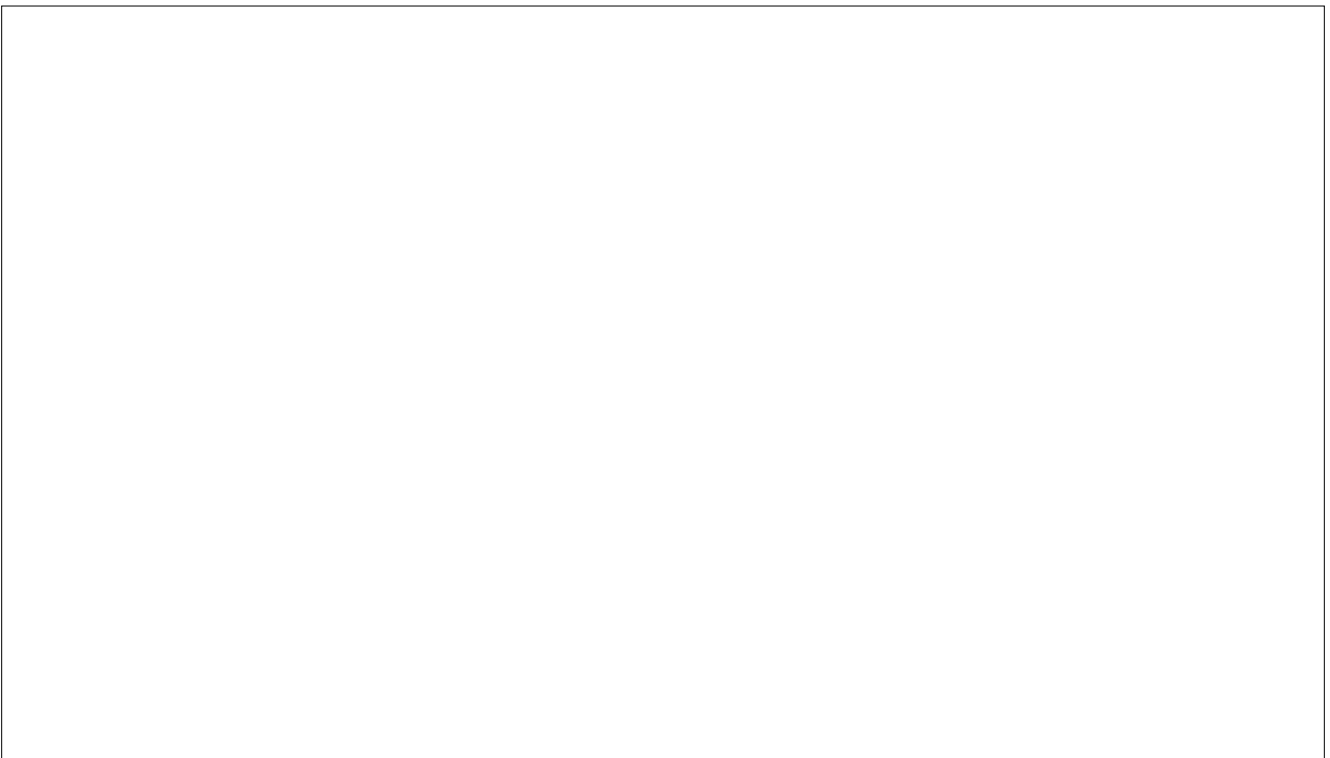
.....

.....

.....

.....

.....

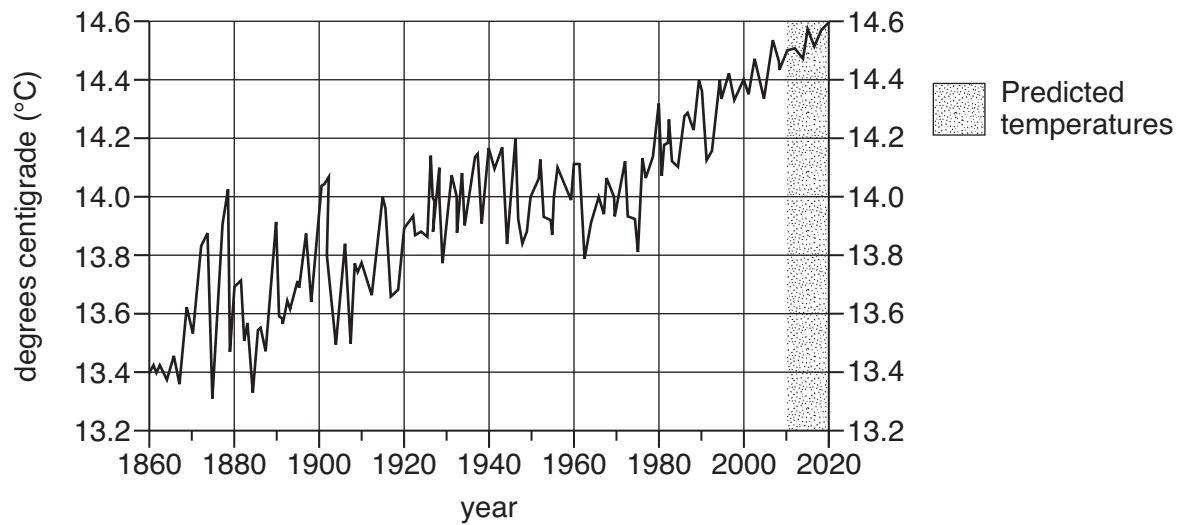


[5]

[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 the likely impacts of the predicted changes in average temperatures on the natural environment of the polar or mountain area you have studied.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [6]

- (b) Climate change is one change which may affect extreme environments.  
Describe **one other** change which might occur 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), the question number(s) must be clearly shown.

This image shows a full page of a handwriting practice worksheet. It consists of multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no margins or additional markings.



**15**  
**BLANK PAGE**

**PLEASE DO NOT WRITE ON THIS PAGE**

**PLEASE DO NOT WRITE ON THIS PAGE**



**Copyright Information**

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations, is given to all schools that receive assessment material and is freely available to download from our public website ([www.ocr.org.uk](http://www.ocr.org.uk)) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.