

GENERAL CERTIFICATE OF SECONDARY EDUCATION

GEOGRAPHY A

Extreme Environments (Higher Tier)

A671/02

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

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 1(c), 2(b), 4(a)(ii) and 4(b) for the quality of written communication of your answer.
- This document consists of **12** 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

Describe the location of the Mojave Desert.

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..... [3]

(b) Study Fig. 2.

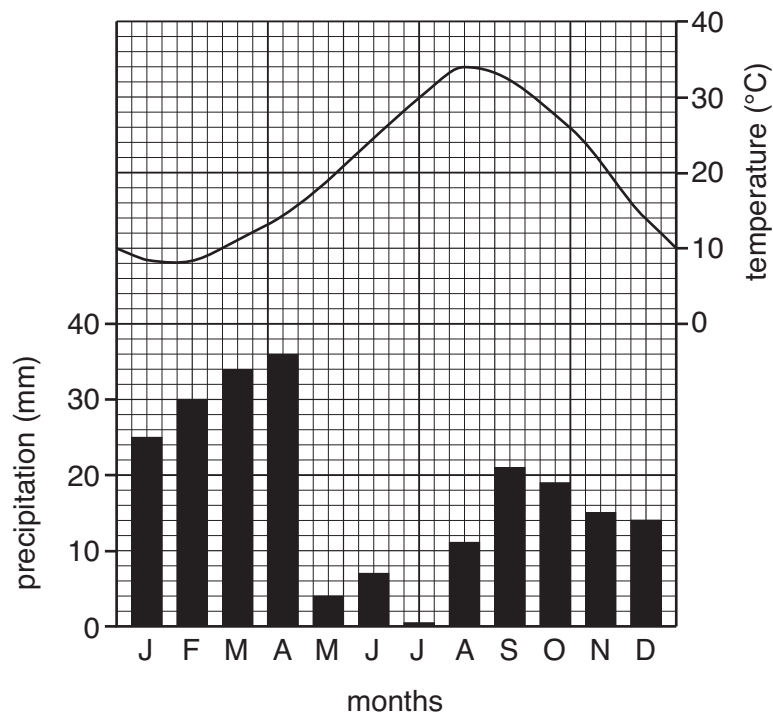


Fig. 2 Climate graph of Mojave Desert

(i) State the annual range of temperature in the Mojave Desert.

..... °C [1]

(ii) Suggest how and explain why temperatures in the day are likely to differ from temperatures at night in the Mojave Desert in July.

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..... [2]

(c) Explain why the climate in a desert is hot and dry.

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..... [6]

[Total: 12]

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

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

1

2 [2]

(ii) Explain how the natural vegetation of hot deserts can survive the hot, dry climate.

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..... [3]

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

- (i)** Name an area where this extreme environment can be found.

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

- (ii)** Describe different ways in which your chosen environment can be considered to be extreme.

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..... **[4]**

- (b) Name **one** physical feature which occurs in your chosen extreme environment.
Describe this feature and explain how physical processes created it.

You may draw a labelled diagram.

Named physical feature

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[5]

[Total: 10]

4 (a) Study Fig. 3.

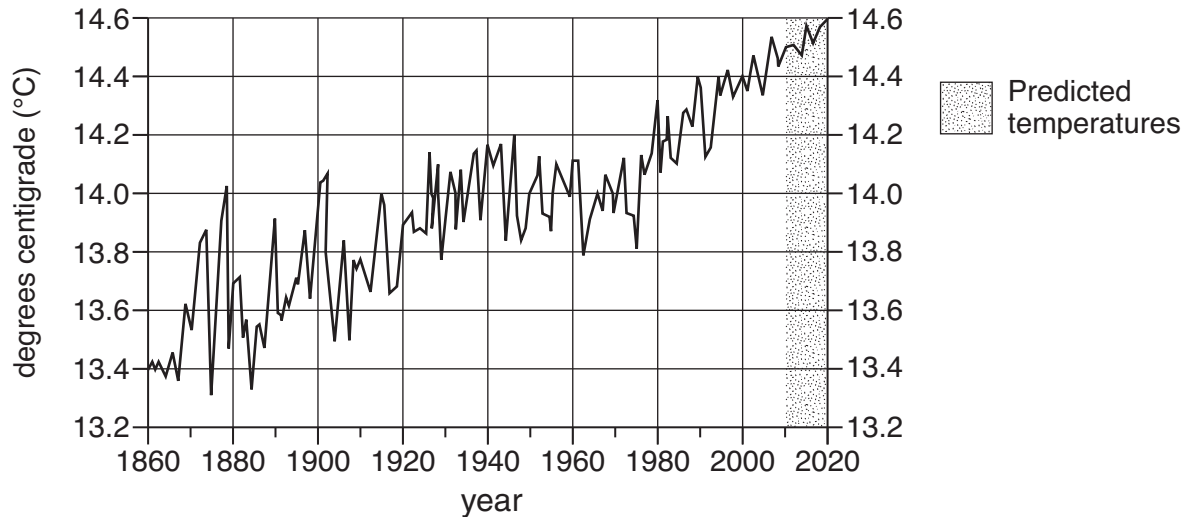


Fig. 3 Average temperatures at the earth's surface

- (i) Briefly describe how the average temperatures at the earth's surface have changed between 1860 and 2010. Support your answer with dates and figures.

..... [3]

- (ii)** Suggest and explain 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.

..... [6]

[Total: 15]

[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.

[illegible]

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