



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER



ENVIRONMENTAL MANAGEMENT

0680/22

Paper 2

October/November 2015

1 hour 45 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer **both** questions.

Electronic calculators may be used.

You may lose marks if you do not show your working or if you do not use appropriate units.

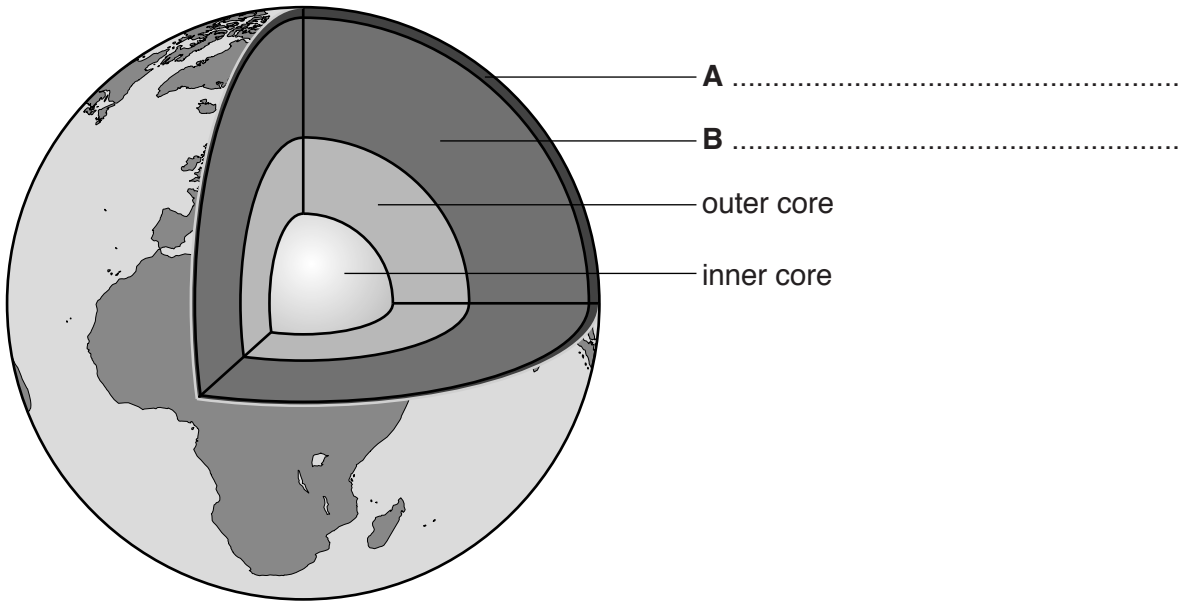
At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **16** printed pages.

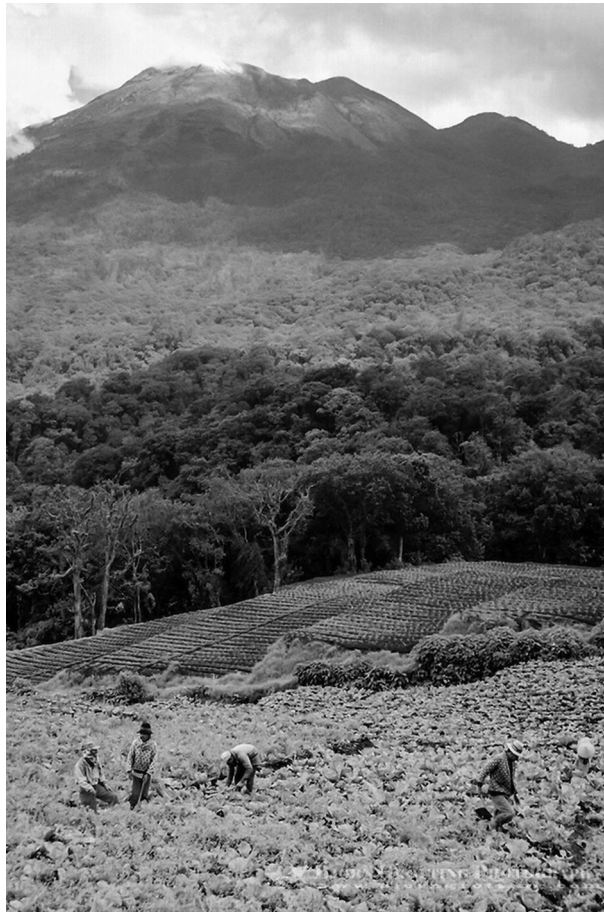
1 (a) Look at the diagram which shows the structure of the Earth.

Complete labels **A** and **B** on the diagram by writing in the names of the layers.



[2]

(c) Look at the photograph, which shows an area surrounding a volcano in Java.



(i) Describe **and** explain an economic advantage of living near the volcano that is shown in the photograph.

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.....[2]

(ii) Explain **two** problems that can be caused by volcanic eruptions.

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.....[4]

(iii) State **two** ways in which the impact of volcanic eruptions can be reduced.

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.....[2]

(iii) Suggest how urbanisation and deforestation can increase the flood risk in places such as Mozambique.

urbanisation

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deforestation

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[4]

(f) The impact of earthquakes and volcanoes is often greater in developing countries than in developed countries. To what extent do you agree with this point of view? Give reasons for your answer.

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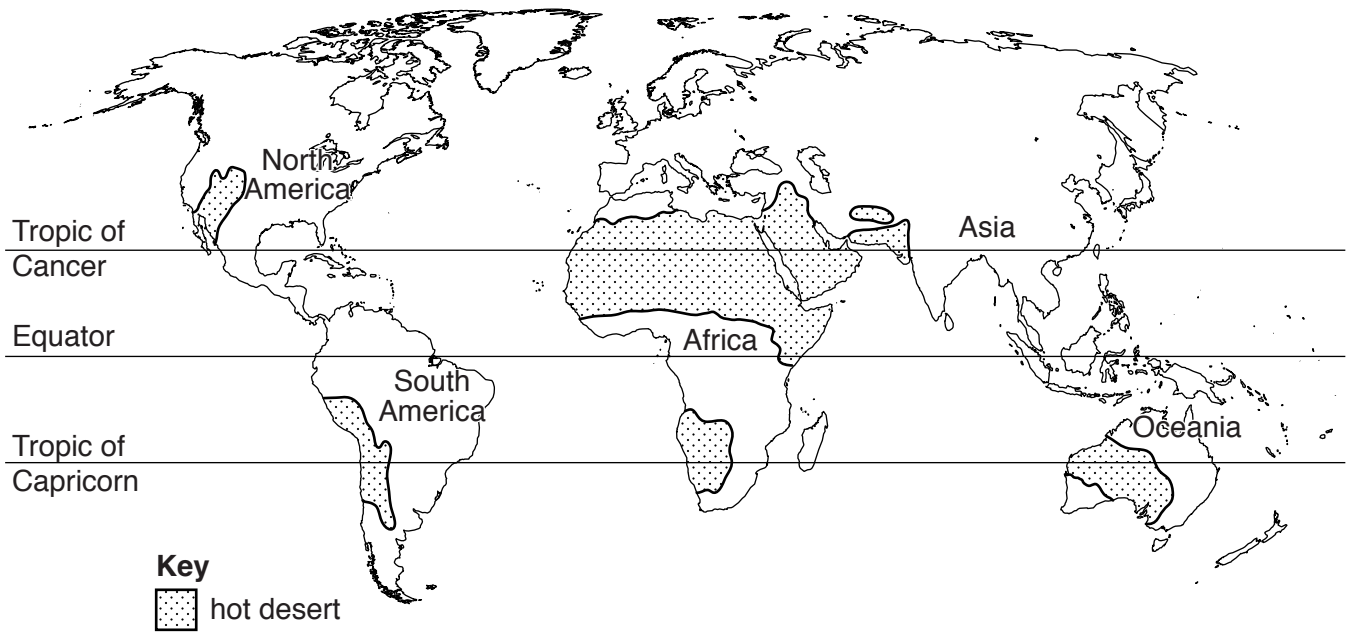
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[6]

2 (a) Look at the map below, which shows the hot deserts of the world.



(i) Describe the distribution of hot deserts shown on the map.

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(iv) Use data from the table and graph to state the number of months below 20°C.

.....[1]

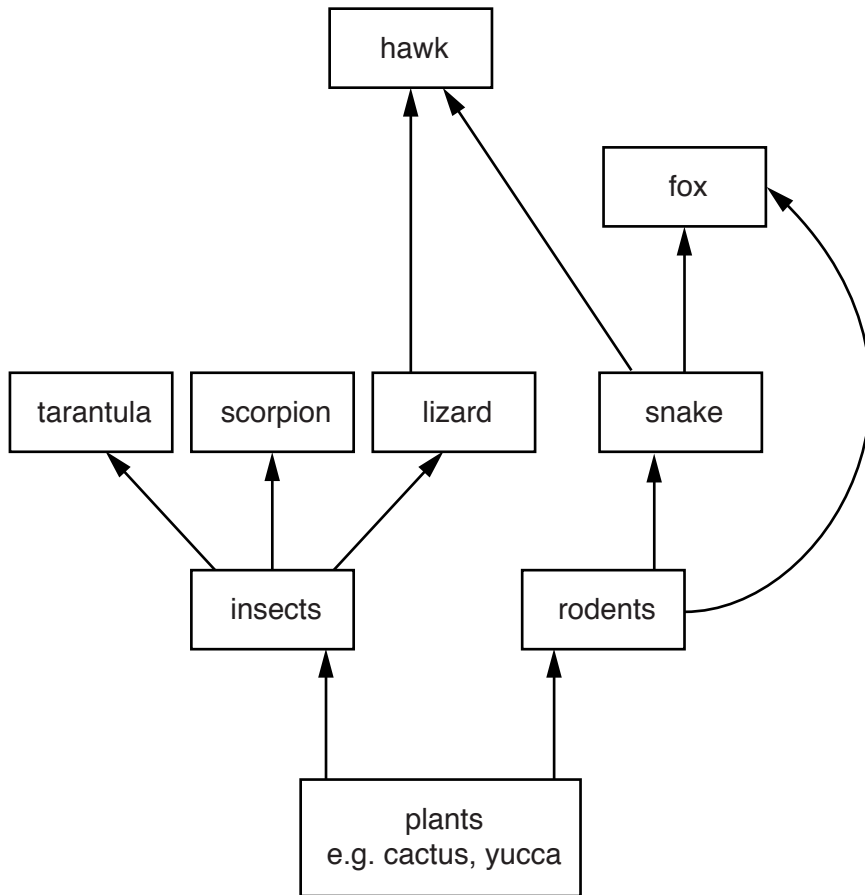
(v) Use data from the table and graph to calculate the annual temperature range (the difference between the highest and lowest temperature in a year).

.....[1]

(vi) State the relationship between temperature and rainfall shown for this hot desert.

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[1]

(b) (i) Look at the diagram, which shows a food web in a hot desert ecosystem. Use the diagram to complete the table below with **one** example for each.



| | |
|----------|-------|
| producer | |
| consumer | |

[1]

(ii) Look again at the diagrams of the Mojave Desert. Describe the impact that solar panels are having on the ecosystem shown in the diagrams.

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.....[3]

(iii) Suggest reasons why countries might want to develop solar power as a source of energy.

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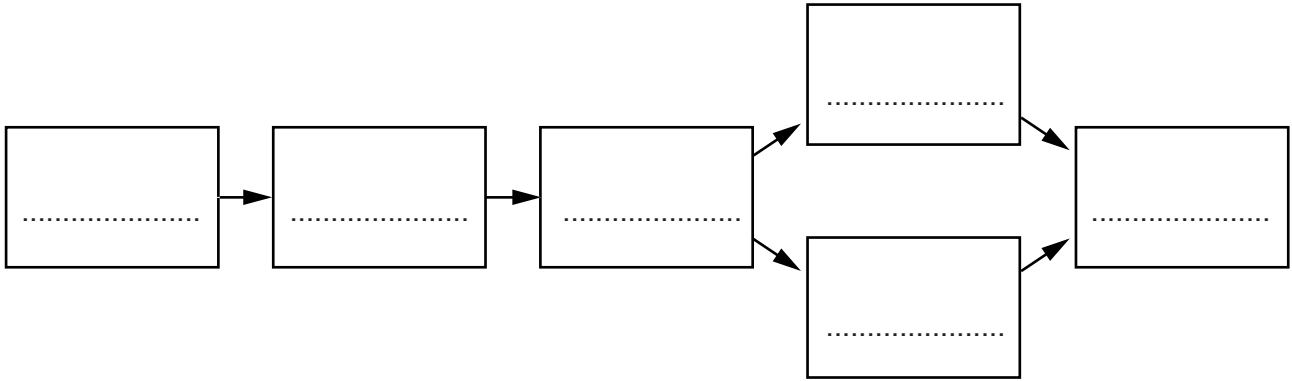
(iv) Other than the impact on ecosystems, state **three** possible disadvantages of relying on solar power.

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.....[3]

(d) (i) Define the term *desertification*.

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.....[1]

(ii) Insert the letters **A–F** into the boxes in the correct order on the flow diagram below to show a human cause of desertification.



- A overgrazing
- B increased population
- C more demand for food
- D soil loses structure
- E soil blown and washed away
- F vegetation removed

[3]

(iii) Explain **two** impacts of desertification on people.

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.....[3]

