GradeMax

Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

4694696559

GEOGRAPHY **0460/23**

Paper 2 **October/November 2015**

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler
Protractor
Plain paper
Calculator

1:50 000 Survey Map Extract is enclosed with this Question Paper.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.
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.

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.

Answer **all** questions.

The Insert contains Photograph A for Question 4 and Photograph B for Question 5.
The Survey Map Extract and the Insert are **not** required by the Examiner.
Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

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.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **16** printed pages, **4** blank pages and **1** Insert.

DC (ST/CGW) 120560/7 **R**
© UCLES 2015

CAMBRIDGE International Examinations

[Turn over

GradeMax

BLANK PAGE

© UCLES 2015

GradeMax

1 **(a)** Study the map extract, which is for Tshatshani, Zimbabwe. The scale is 1:50 000. Fig. 1 shows some of the features in the west part of the map extract.

Study Fig. 1 and the map extract and answer the questions below.

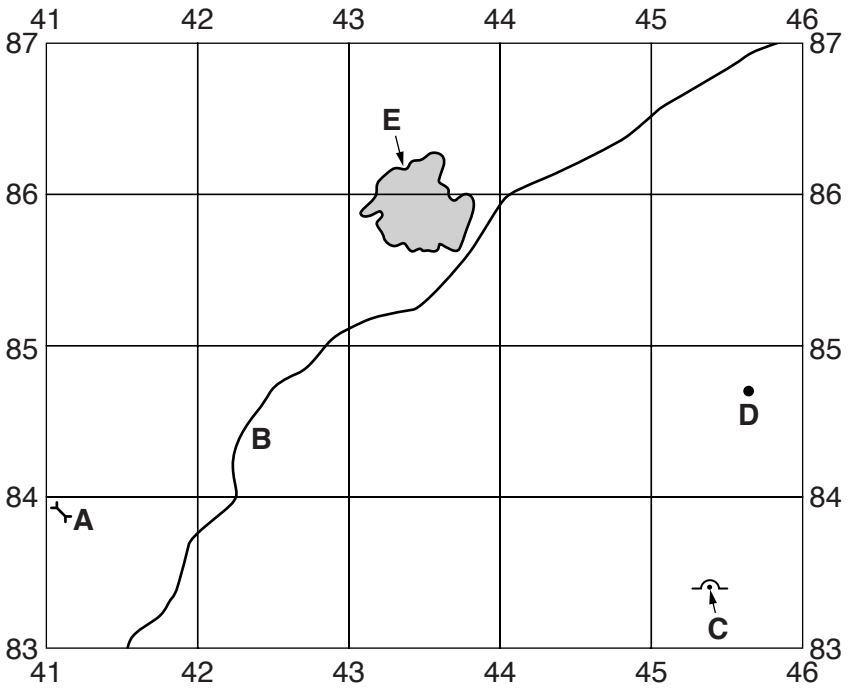


Fig. 1

Using the map extract, identify the following features shown on Fig. 1:

(i) feature **A**;

.....[1]

(ii) the type of road at **B**;

.....[1]

(iii) feature **C**;

.....[1]

(iv) the height of the land at **D**;

.....[1]

(v) the natural feature at **E**.

.....[1]

© UCLES 2015

[Turn over

(b) Fig. 2 is a cross-section along northing 81 from the western edge of the map to 460810. The location of a track has been marked on the cross-section.

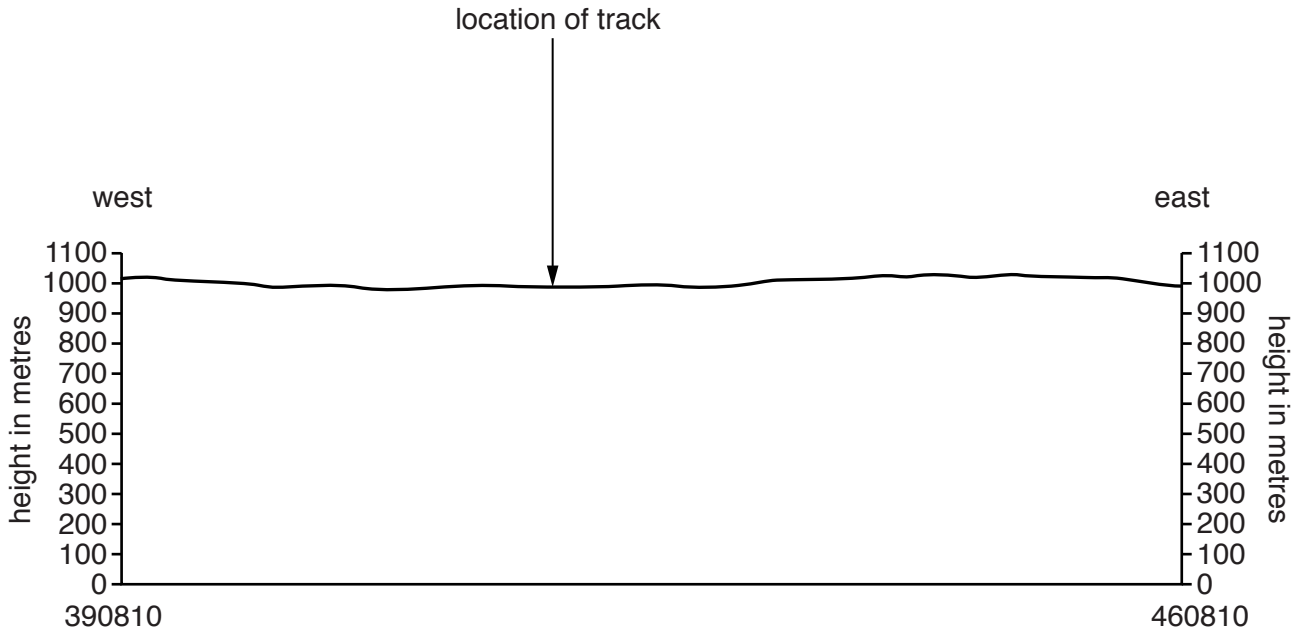


Fig. 2

On Fig. 2, using labelled arrows, mark the positions of:

(i) the Shashani river; [1]

(ii) a road classified as an 'other' road; [1]

(iii) a dam. [1]

(c) **(i)** Give the six figure grid reference of Kezi School in the north east of the map extract.

.....[1]

(ii) Using map evidence, identify **four** uses of buildings in the settlement of Kezi to the south east of the school.

1 .....

2 .....

3 .....

4 .....[2]

© UCLES 2015

GradeMax

(d) **(i)** Measure the straight line distance in metres from Kezi School to the ruins on Dombwe-Dombwe hill.

.....[1]

(ii) State the compass bearing from Kezi School to the ruins on Dombwe-Dombwe hill.

.....° [1]

(e) Describe the physical features of the Shashani river.

.....

.....

.....

.....

.....

.....

.....

.....[4]

(f) What is the height above sea level of the Mwewe river where it leaves the eastern edge of the map? Tick (✓) **one** box below.

Height	Tick **(✓)**
under 1000 m	
1000 m	
1020 m	
over 1020 m	

[1]

(g) Study grid squares 4683, 4783, 4883 and 4983. The table below shows the four squares. Complete the table by putting ticks in the correct **two** boxes. Use only one tick for each row.

	4683	4783	4883	4983
the highest drainage density				
the highest density of settlement				

[2]

[Total: 20 marks]

© UCLES 2015

[Turn over

GradeMax

2 **(a)** Fig. 3 shows the shape of trees in a layer of the tropical rainforest.

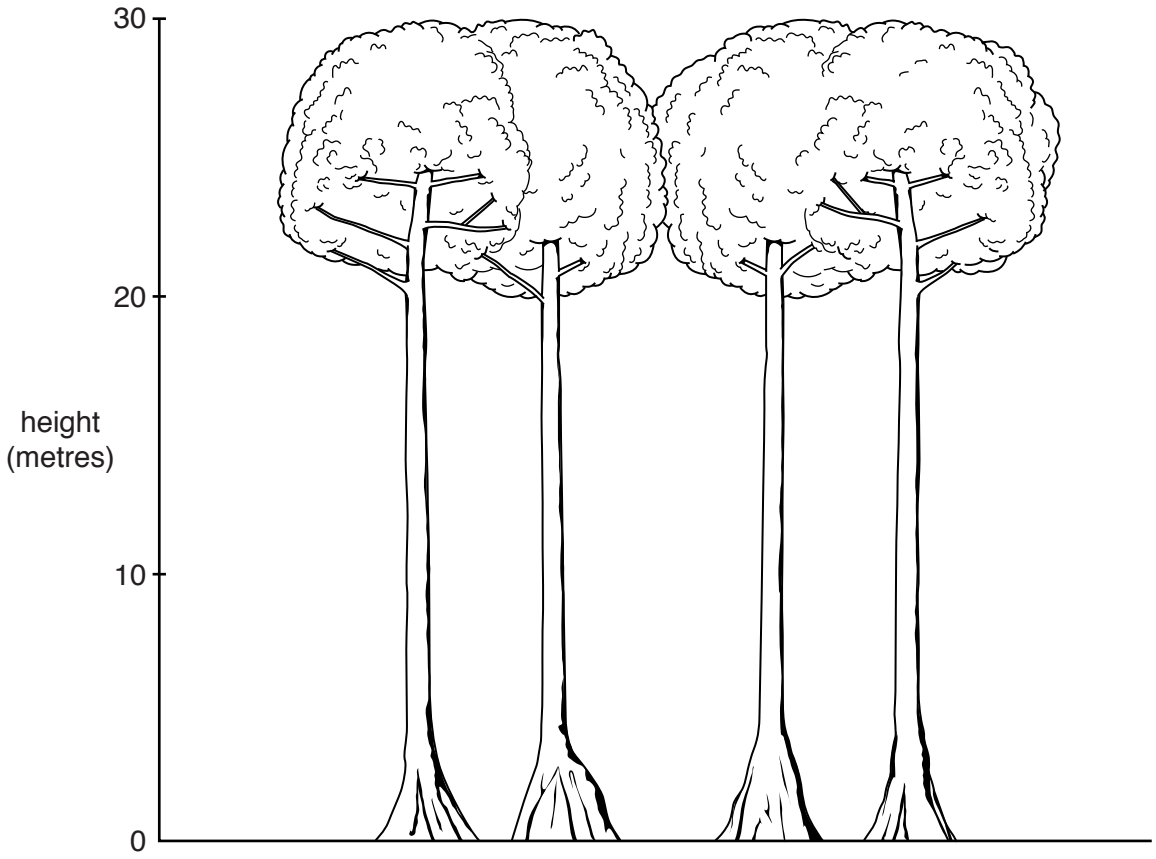


Fig. 3

(i) Describe the characteristics of the trees shown in Fig. 3.

.....

.....

.....

.....

.....

.....

.....

.....[4]

© UCLES 2015

GradeMax

(ii) Explain how **two** of the characteristics of the trees you have described in your answer to **(a)(i)** are linked to the hot, wet climate in which the tropical rainforest grows.

.....

.....

.....

.....[2]

(b) (i) Suggest in which layer of the tropical rainforest the trees in Fig. 3 would be found.

Circle your answer below.

canopy emergent shrub under-storey (sapling) [1]

(ii) Give **one** piece of evidence from Fig. 3 for your answer to **(b)(i)**.

.....

.....[1]

[Total: 8 marks]

© UCLES 2015

[Turn over

GradeMax

3 **(a)** Study Fig. 4, which shows information about mean (average) world temperatures between 1880 and 2010.



Fig. 4

(i) On Fig. 4 the thick horizontal line represents the mean world temperature calculated over the period shown.

Which period had temperatures closest to this mean?

Circle your answer below.

1891–1920 1921–1950 1951–1980 1981–2010 [1]

© UCLES 2015

(ii) Fig. 4 shows how world temperatures have varied from the mean.

Using Fig. 4, complete the table.

year with the lowest world temperature	.....
the number of degrees below the mean in that year	.....°C

[2]

(iii) Describe the main trends in world temperatures, as shown by Fig. 4.

.....

.....

.....

.....

.....

.....

.....

.....[4]

(b) Suggest why many people living near coasts are concerned about the general change in world temperature since 1975.

.....

.....[1]

[Total: 8 marks]

© UCLES 2015

GradeMax

4 Photograph A (Insert) shows a settlement, Pisac, in the Andes Mountains of Peru and the surrounding area. Pisac is marked on Fig. 5, a map of the area.

Use Photograph A and Fig. 5 to answer the following questions.

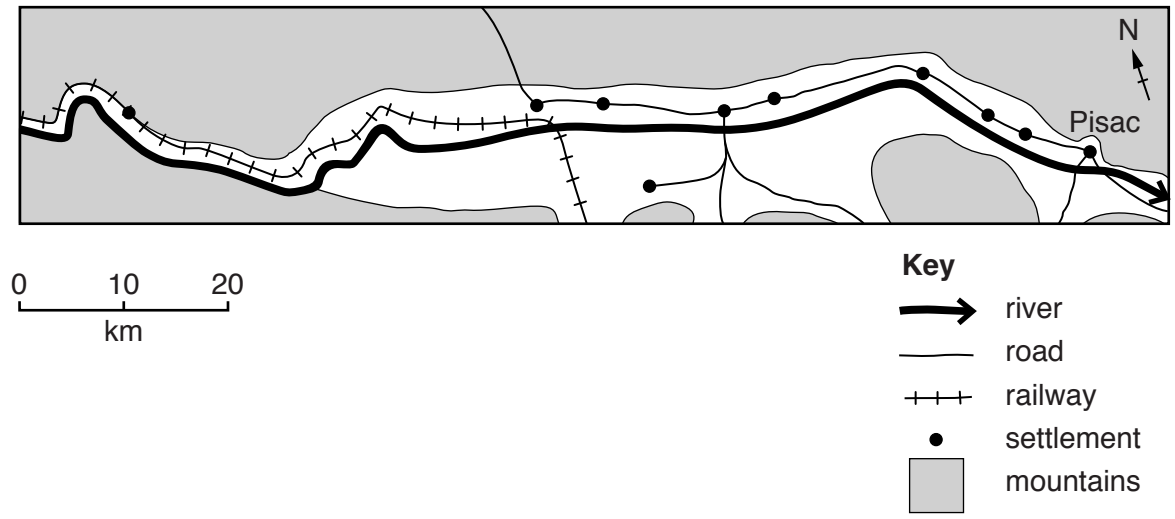


Fig. 5

(a) Describe the site and situation of Pisac, the settlement shown in Photograph A.

.....

.....

.....

.....

.....

.....

.....

.....[4]

(b) Suggest why much of the area shown in Photograph A has no settlement.

.....

.....

.....

.....

.....

.....

.....

.....[4]

[Total: 8 marks]

GradeMax

5 **(a)** Photograph B (Insert) shows a farm in the Central Valley of Chile that produces grapes.

(i) This farm is a commercial, arable farm. Explain what this means.

commercial; .....

.....

arable. .....

.....[2]

(ii) Using Photograph B **only**, describe other features of the farm.

.....

.....

.....

.....[2]

(b) Fig. 6 gives information about the area shown in Photograph B. Use Photograph B and Fig. 6 to answer the questions that follow.

The fertile Central Valley is ideal for most crops. Snow falls on the surrounding mountains but the valley has warm, wet winters. Its summers are very warm and dry. The rain-free growing season results in healthy plants.

Fig. 6

(i) Suggest a purpose for the thin pipes (labelled on Photograph B), which run through the field. Give a reason for your answer.

.....

.....

.....

.....[2]

(ii) Suggest **one** way in which snow falling on the mountains shown in Photograph B can be an advantage to farming in the Central Valley.

.....

.....[1]

(c) Using evidence from Photograph B, suggest why insect pests could rapidly cause damage on this farm.

.....

.....[1]

[Total: 8 marks]

© UCLES 2015

GradeMax

TURN PAGE FOR QUESTION 6

GradeMax

6 Fig. 7 shows different sources of energy used by Canada and Egypt in 2011. Use Fig. 7 to answer all the questions that follow.

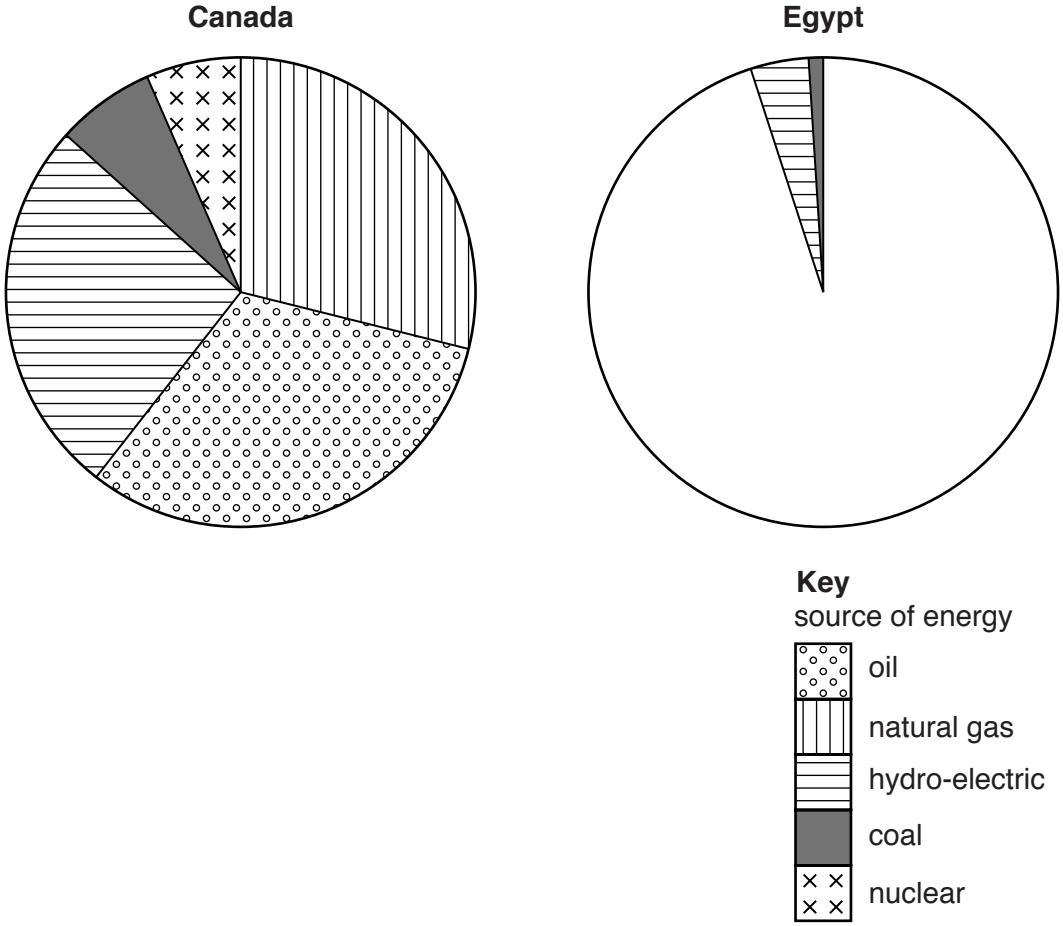


Fig. 7

(a) Use the information in Table 1 to complete the pie graph for Egypt. Use the key provided.

Table 1

Energy source	Percentage of total use
natural gas	54
oil	41

[2]

(b) (i) Estimate the percentage of Canada's energy that is generated by hydro-electric power.

.....% [1]

(ii) Describe the main similarities in energy use between Canada and Egypt. (You do not need to use figures in your answer.)

.....

.....

.....

.....[2]

© UCLES 2015

(iii) Describe **three** differences in energy use between the two countries. (You do not need to use figures in your answer.)

1 .....

.....

2 .....

.....

3 .....

.....[3]

[Total: 8 marks]

© UCLES 2015

GradeMax

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.

GradeMax

BLANK PAGE

© UCLES 2015

GradeMax

BLANK PAGE

© UCLES 2015

GradeMax

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

Cambridge International Examinations 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.