

Cambridge International Examinations

Cambridge Ordinary Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

GEOGRAPHY 2230/02

Paper 2 Skills October/November 2017

(FOR CENTRES IN BRUNEI)

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Protractor

Ruler

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, graphs or rough working.

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

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

The Insert contains Photograph A and Photograph B for Question 3 and Photograph C for Question 4.

The Survey Map Extract and Insert are **not** required by the Examiner.

Sketch maps and diagrams should be drawn whenever they serve to illustrate the 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.



1 Study the map extract (1:50 000) of Cambridge.

	State the four-figure reference for the grid square containing the village of Horningsea ocated in the north-east of the map.
	[1]
	What is the distance along the river from 490625 to 480604? Describe the method you used and give your answer in kilometres.
	[2]
	f you walk along the riverside from Horningsea to Cambridge city centre (grid square 4458), what is the number of the National Cycle Network you would meet?
	[1]
(iv) (Give a six-figure grid reference for the location where the A14 road crosses over the river.
	[1]
(v) l	n which general compass direction is Cambridge city centre from Horningsea?
	[1]

(b) Study Fig. 1, a sketch map of the southern part of Cambridge.

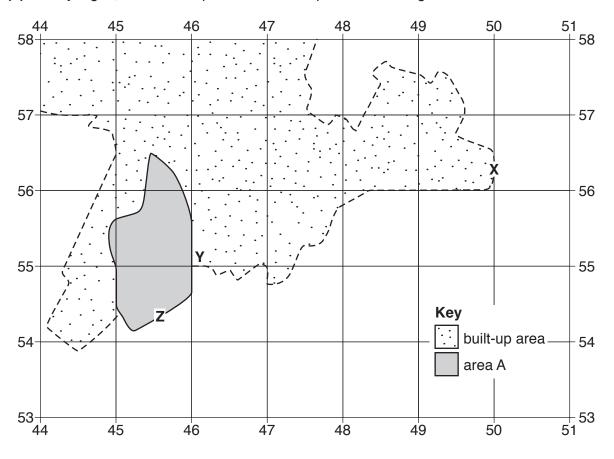


Fig. 1

(ii)	Use the map extract to identify the de your answers on Table 1 below.	evelopments at positions X, \	and Z on Fig. 1. Write [3]
	Tab	le 1	
	development	position (X, Y or Z)	
	hospital		
	business park		
	road		
(c) Mos	st tourists travel to Cambridge by road		
(i)	If you travel to Cambridge by car from	n the south, which motorway	exit would you take?
(ii)	Name three other types of transpor Cambridge.	t, shown on the map, that ca	an be used to travel to
	2		
	3		[3]

(iii) Study the area on the map extract shown by Fig. 2.

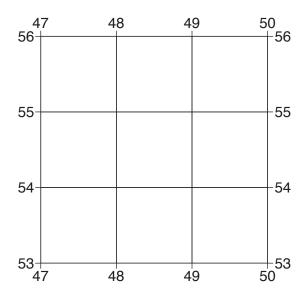


Fig. 2

Use map evidence to describe the tourist features shown in this area.
[3]
[Total: 20 marks]

2 (a) Fig. 3 shows natural gas production and consumption (use) in Brunei between 2000 and 2012.

Natural gas production and consumption in Brunei 2000 to 2012

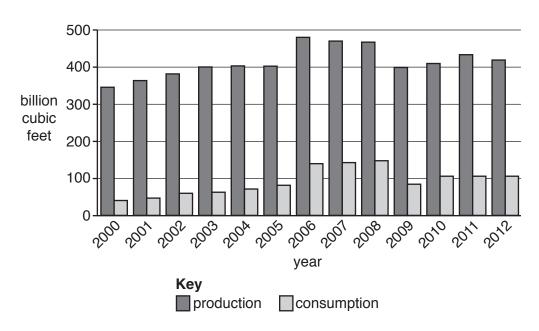
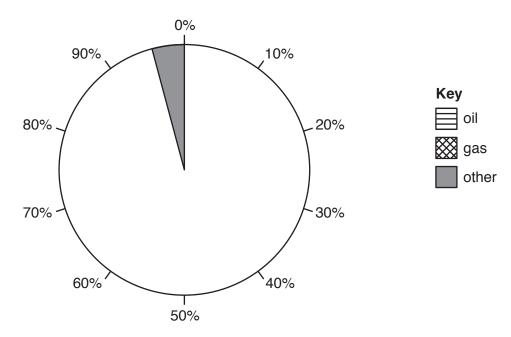


Fig. 3

Compare the production and consumption of natural gas in Brunei between 2000 and 2012	
Γ	3

(b) Use the information in the table below to **complete Fig. 4**, a pie chart showing Brunei's exports in 2014. [2]

Brunei's exports, 2014



product	percentage
oil	52%
gas	44%
other	4%

Fig. 4

(c) Fig. 5 shows the main countries Brunei exports its products to.

Countries Brunei exports to

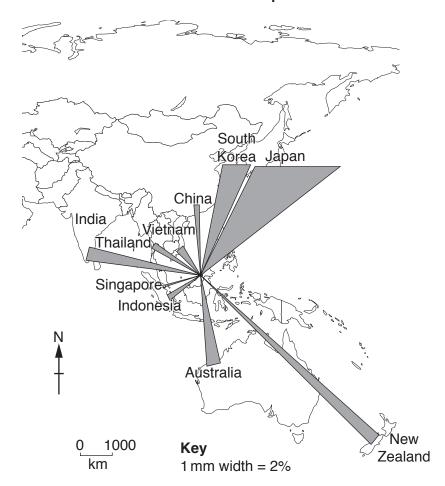


Fig. 5

(i)	What percentage of Brunei's exports go to China?
	[1]
(ii)	Describe Brunei's export trade shown on Fig. 5.
	[3]
(iii)	Suggest one reason to explain the amount of oil and gas exported to Japan from Brunei.
	[1]

[Total: 10 marks]

- 3 Photographs A and B (Insert) show a popular tourist area in the UK.
 - (a) (i) Five coastal features (A to E) are marked on Photograph A. Which letter on Photograph A shows each feature? Write your answers on **Table 2** below. One answer has been completed for you.

Table 2

feature	letter
natural arch	
bay	
cliff	D
beach	
headland	

(ii)	Use evidence from Photograph A to suggest why tourists are attracted to this area.	
		77

[4]

(b) Fig. 6 shows visitor numbers to the two attractions shown in Photograph B.

Number of visitors to Corfe Castle and Swanage Steam Railway 2002 to 2009

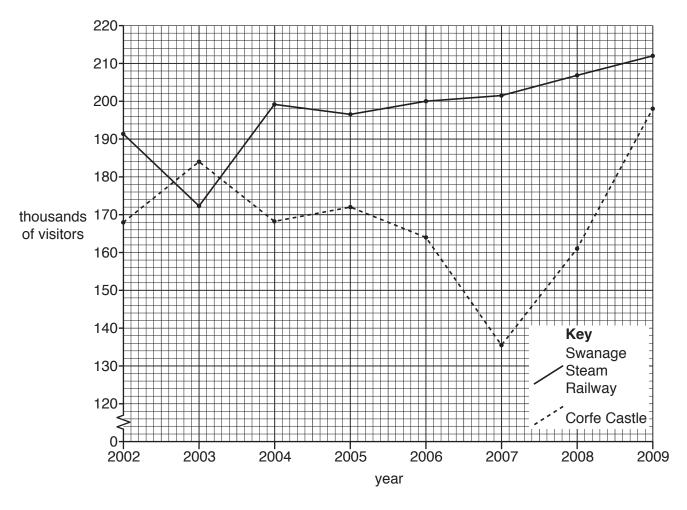
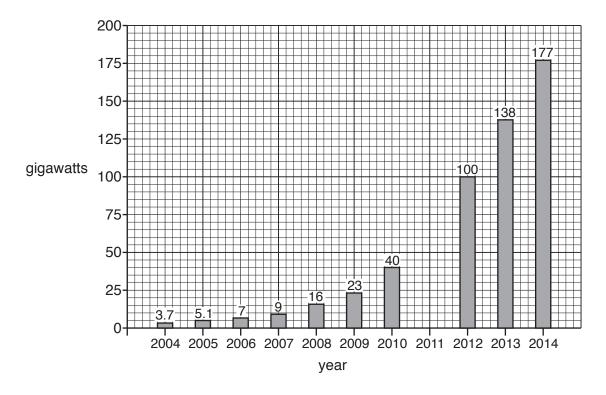


Fig. 6

(i)	What is the general trend from 2002 to 2009 for both attractions shown on Fig. 6?
	[1]
(ii)	Which attraction received the greatest overall increase in visitors from 2002 to 2009?
	[1]
(iii)	In which year did Corfe Castle receive more visitors than Swanage Steam Railway?
	[1]
	[Total: 10 marks]

4 (a) Fig. 7 shows the global production of solar power from 2004 to 2014.

Global production of solar power 2004 to 2014



year	solar power capacity	
2011	70 gigawatts	

Fig. 7

(i)	On Fig. 7 complete the bar graph using the data shown below the graph.	[1]
(ii)	Compare the rate of growth of solar power before and after 2010.	
		[1]

(b) Fig. 8 shows energy production in Brunei in 2010 and 2035 (projected).

Energy production in Brunei in 2010 and 2035 (projected)

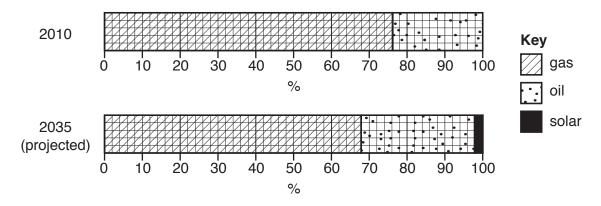


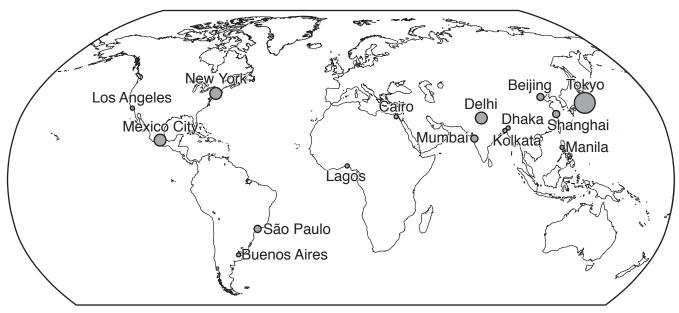
Fig. 8

		1 19. 0
	(i)	What percentage of Brunei's energy production came from oil in 2010?
		[1]
	(ii)	Use Fig. 8 to describe the projected changes to Brunei's energy production between 2010 and 2035.
		[3]
(c)	Stud	dy Photograph C (Insert) which shows a solar power plant in Brunei.
	(i)	Describe the solar power plant shown in Photograph C.
		[2]

(ii)	Suggest two reasons why Brunei wants to develop renewable energy production such as the solar power plant shown in Photograph C.							
	1							
	2							
	[2]							
	[Total: 10 marks]							

[Total: 10 marks]

5 (a) Fig. 9 shows the location of the world's fifteen largest megacities in 2010.



Key

- 10 000 000 to 14 999 999 (category 1)
- 15 000 000 to 19 999 999 (category 2)
- 20 000 000 to 24 999 999 (category 3)
- 25 000 000 and over (category 4)

Fig. 9

(i)	A 'megacity' is a city with more than how many million people?	
(ii)	How many cities are in category 1 on Fig. 9?	. [1]
(iii)	Name a megacity in Africa.	. [1]
(iv)	Name a continent with no megacities shown on Fig. 9.	. [1]
. ,		. [1]

(b) Table 3 shows the population of the 10 largest megacities in 2010 and 2025 (projected).

Table 3

city	2010 population (millions)	2010 rank	2025 population (millions projected)	2025 rank
Tokyo	36.9	1	38.7	
Delhi	21.9	2	32.9	
Mexico City	20.1	3	24.6	
New York	20.1	4	23.6	6
São Paulo	19.6	5	23.2	7
Shanghai	19.6	6	28.4	
Mumbai	19.4	7	26.6	
Beijing	15.0	8	22.6	9
Dhaka	14.9	9	22.9	8
Kolkata	14.3	10	18.7	10

(i)	Which city is projected to have the greatest increase in population from 2010 to 2025?
	[1]
(ii)	Complete Table 3 by ranking the five largest cities from 1 to 5 for 2025. Ranks 6–10 have been completed for you.
(iii)	Describe three problems caused by the rapid growth of megacities.
	1
	2
	3
	[3]

[Total: 10 marks]

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