

#### **Cambridge Assessment International Education**

Cambridge Ordinary Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		



GEOGRAPHY 2230/02

Paper 2 Skills October/November 2019

(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 or graphs.

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

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

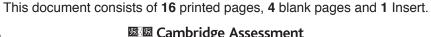
The Insert contains Fig. 1.2 for Question 1, Fig. 4.2 for Question 4, and Fig. 5.1 for Question 5.

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.





Study th	ne map extract (1:50 000) of part of Por	t Antonio, Jamaica.
(a) (i)	Name the settlement in grid square 0	
(ii)	What is located at grid reference 088	[1] 3707?
		[1]
(iii)	If you canoe upstream from the brid meet, at 071627:	dge at 070650 to the confluence, where two rivers
	A In which general compass directi	on would you travel? [1]
	B How far would you travel? Tick (✓	
	less than 1 km	
	1–2km	
	more than 2km	[1]
(b) (i)		n grid square 0069.
		[2]
(ii)	· · · · · · · · · · · · · · · · · · ·	complete Table 1.1 below. For each settlement add een completed for you. Choose from the following
	large town minor town village	[1]
	Tabl	e 1.1
settlem	ent name	type of settlement
St. Marg	garet's Bay	
Spring E	Bank are 0568 (south west of Port Antonio)	
Port Ant	onio	large town

(c) Study Fig. 1.1, which shows an area of the map extract.

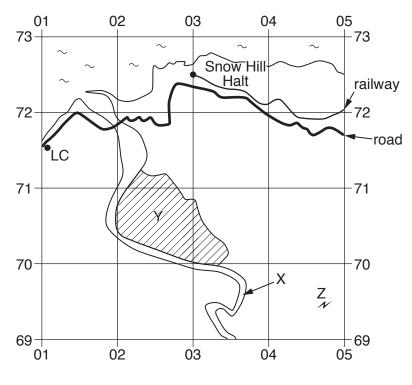


Fig. 1.1

(i)	Name river X.	
		[1]
(ii)	On Fig. 1.1, add an arrow along the river to show the direction it is flowing.	[1]
(iii)	What is the land use in area Y?	
		[1]
(iv)	Name the feature Z.	
		[1]
(v)	<b>On Fig. 1.1</b> , complete the route of the railway line from Snow Hill Halt 030724 to level crossing (LC) at 010715.	the [1]
(vi)	State the total area covered by the grid squares in Fig. 1.1. Give your answer in squaillemetres.	are
		[1]

(d)	Describe the <b>natural</b> features of the coastline from Downers Bluff (grid square 0272) to Ship Head (grid square 0572).					
	[3]					

**(e)** Study Fig. 1.2 (Insert), which shows five satellite photographs. **Complete Table 1.2** below to identify which photograph corresponds to each grid square location on the map extract. One has been completed for you.

Table 1.2

map location (grid square)	photograph
0869	
0367	
0762	
0171	В
0069	

[4]

[Total: 20]

**TURN OVER FOR QUESTION 2** 

**2** (a) Study Fig. 2.1, a five-day weather forecast for Brunei in May.

# Five-day weather forecast for Brunei, 1-5 May

Mon 1 May  31°C 25°C	Tue 2 May 30°C 24°C	Wed 3 May 30°C 25°C	Thu 4 May  30°C  25°C	Fri 5 May  29°C 24°C
6	5	3	3	4>

Fig. 2.1

(i)	Which day had the strongest wind?	
		[1]
(ii)	From which direction was the wind blowing on Tue 2 May?	
		[1]
(iii)	Complete Table 2.1 below to state the temperatures during this five-day period.	

Table 2.1

minimum temperature	
maximum temperature	
temperature range	

[3]

**(b)** Fig. 2.2 shows the actual daily total rainfall for the same five days in May at Brunei International Airport.

total rainfall (mm)

Brunei International Airport, daily total rainfall, 1–5 May

40

40

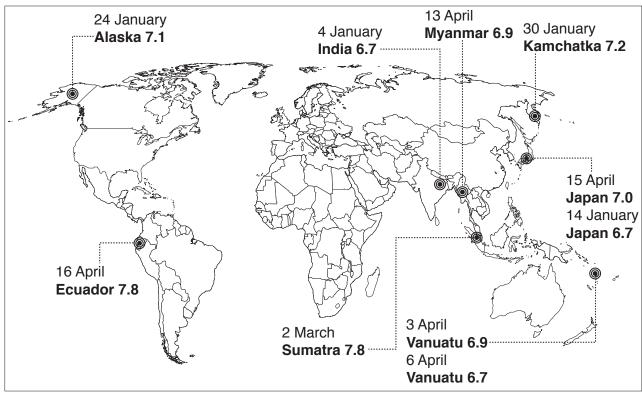
Mon 1 May Tue 2 May Wed 3 May Thu 4 May Fri 5 May day

Fig. 2.2

	Describe the pattern of rainfall during the five-day period.
	[3]
(c)	Compare Fig. 2.1 and Fig. 2.2. How accurate do you think the five-day weather forecast was for Brunei? Use data from Fig. 2.1 and Fig. 2.2 to support your view.
	[2]
	[Total: 10]

**3 (a)** Study Fig. 3.1, which shows the date, location and strength of the top ten earthquakes (by magnitude) in 2016.

The 10 biggest earthquakes by magnitude in 2016



Key

7.8 magnitude (Mw)

Fig. 3.1

(i)	What was the magnitude of the 2 March earthquake in Sumatra?	
		[1]
(ii)	Name the <b>two</b> countries which had two major earthquakes in 2016.	
	1	
	2	
		[1]
(iii)	Which month had the most earthquakes in 2016?	
		[1]

**(b)** Study Table 3.1, which shows details about the major earthquakes in April 2017.

Table 3.1

April 2017 earthquakes

date	country	magnitude (Mw)	damage	deaths	injuries
2 April	Panama	5.3	Some objects fell in supermarkets.		
3 April	South Africa	5.2	Plaster fell from walls and some houses were slightly damaged.		
3 April	Botswana	6.5	36 students were injured in a stampede caused by the earthquake.		36
4 April	The Philippines	5.1	The earthquake damaged houses in Batangas City.		
5 April	Iran	6.1	40% of buildings were destroyed in four villages.	2	34
5 April	Greece	4.8	Older buildings suffered minor damage.		
8 April	The Philippines	5.9	Houses and buildings were badly damaged and landslides occurred.		6
10 April	El Salvador	4.8	One person died and three others were injured when a falling rock hit a car on a highway.	1	3
11 April	The Philippines	5.8	Around 500 homes and two mosques were damaged. Cracks appeared on the national highway.		3
15 April	Chile	6.2	None.		
18 April	Fiji	6.0	None.		
24 April	Chile	6.9	Santiago International Airport suffered slight damage.		
28 April	The Philippines	6.9	Several buildings were damaged and at least one house collapsed, injuring five people.		5

(i)	Ho	w many earthquakes above magnitude 5Mw occurred in the Philippines in April 2017?
		[1]
(ii)	Sta	te <b>two</b> different causes of deaths and injuries described in Table 3.1.
	1 .	
	2	
		[2]
(iii)	inju	mpare the strength of each earthquake in April 2017 with the number of people ared. Which of the following statements (A, B or C) best describes this relationship?
	Α	Positive relationship: as the strength of the earthquake increases so does the number of injuries.
	В	There is no clear relationship.
	С	Negative (inverse) relationship: as the strength of the earthquake increases the number of injuries decreases.
		[1]
(iv)	Giv	re evidence from Table 3.1 to support your answer to (b)(iii).

(c) Study Fig. 3.2, a newspaper article about the earthquake on Friday 28 April 2017 in the Philippines.

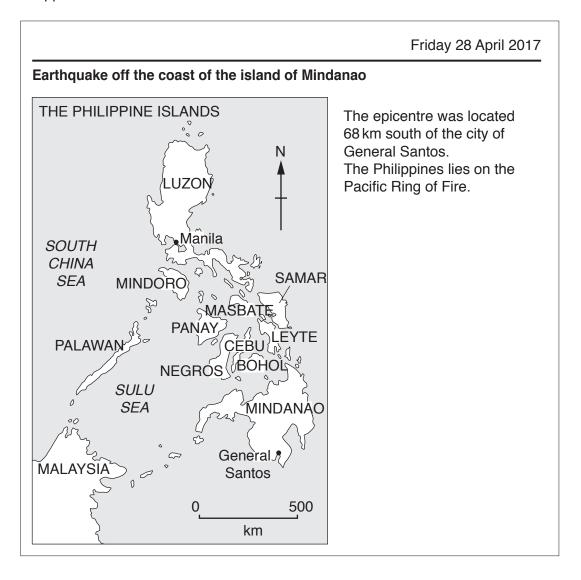


Fig. 3.2

(i) Mark with a small **x** the location of the epicentre of the earthquake **on the map in** Fig. 3.2. [1]

(ii)	It states in Fig. 3.2 that, 'The Philippines lies on the Pacific Ring of Fire.' Explain what is
	meant by the term Pacific Ring of Fire.

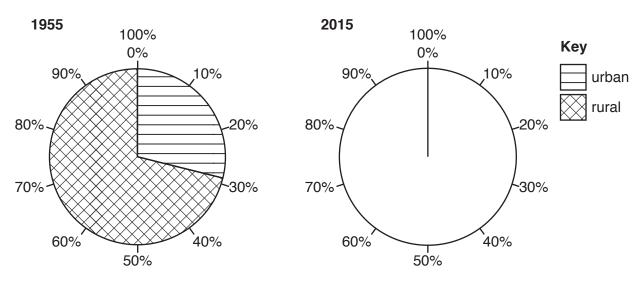
F41

[Total: 10]

**4 (a)** In 1955 urban dwellers made up 29% of the world's population. By 2015 urban dwellers had increased to 53% of the world's population.

Use this information to complete the pie chart for 2015 in Fig. 4.1.

# World urban and rural population



Total population = 2.5 billion

Total population = 7.2 billion

[2]

Fig. 4.1

**(b)** Study the infographic, Fig. 4.2 (Insert), which shows information about the world's urban population.

(i)	What does the term <i>urban population</i> mean?
	[1
(ii)	Which continent has the most countries that are 0-24% urban?
	[1]
(iii)	Which country in Southeast Asia is shown to have 50% urban population?
	[1
(iv)	The black circles show some cities with populations over 10 million in Asia. What name do geographers use for cities with more than 10 million people?
	[1
(v)	Which city on Fig. 4.2 has the greatest urban population?
	[1

(vi)	Describe how the circles have been drawn to show the number of urban population ir millions.
	[1
(vii)	Describe a different way that you could show the data for the cities in Fig. 4.2.
	[2
	lTotal: 10

5	(a)	Study Fig. 5.1 (Insert), a photograph which shows an oil refinery.			
		(i)	Describe the site and situation of the oil refinery shown in Fig. 5.1.		
			Site		
			Situation		
				[2]	
		(ii)	Identify the main features of the oil refinery.		
				ر د	

(b) Study Fig. 5.2, which shows changes in worldwide oil refining, 2004–2013.

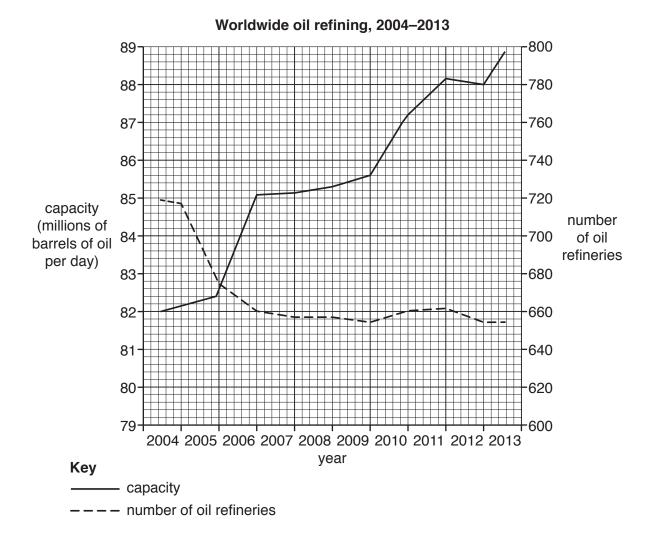


Fig. 5.2

Use Fig. 5.2 to describe Fig. 5.2 to support your	 changes from 2	2004 to 2013.	Use data from
	 		[3]

How does the number of oil refineries in 2013 compare to the number of oil refineries in 2004?
[1]
What can you conclude about the output of each oil refinery in 2013 compared to 2004?
[1]
[Total: 10]

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