



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education (9–1)

GEOGRAPHY

0976/42

Paper 4 Alternative to Coursework

October/November 2019

INSERT

1 hour 30 minutes

READ THESE INSTRUCTIONS FIRST

The Insert contains Figs. 1.2, 1.3 and Table 1.1 for Question 1, and Figs. 2.1, 2.2, 2.3, 2.4 and 2.6 and Tables 2.2 and 2.3 for Question 2.

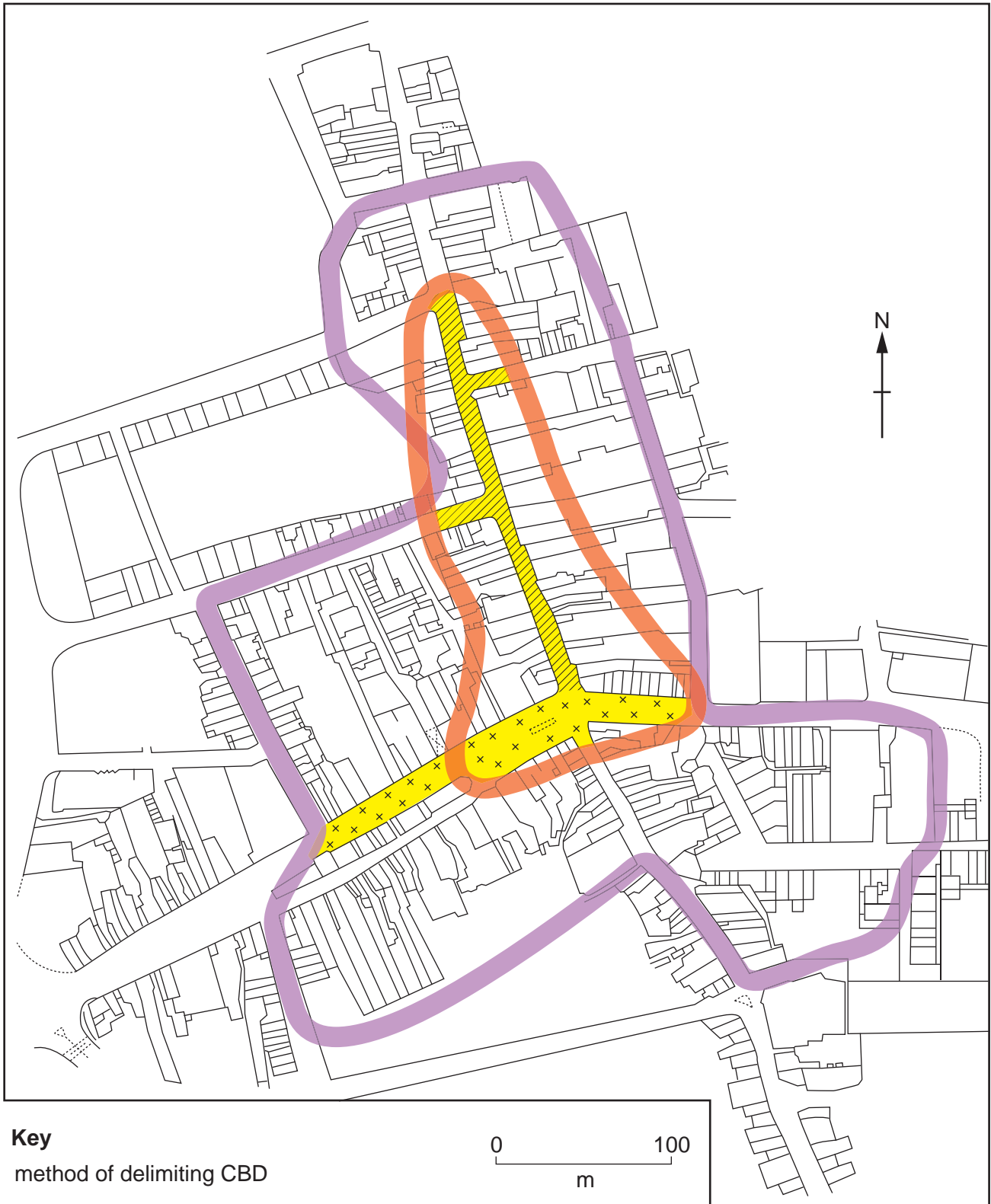
The Insert is **not** required by the Examiner.



This document consists of **10** printed pages and **2** blank pages.


Fig. 1.2 for Question 1


Students' boundaries of CBD




Key

method of delimiting CBD

 more than 300 pedestrians

 buildings which are 3 or more storeys high

 pedestrianised area

 restricted vehicle access

0 100
m

3

Fig. 1.3 for Question 1

Shopping environment index

Site number:

	Score					
	1	2	3	4	5	
Small local business						Large national business
Surrounded by houses and industry						Surrounded by shops and services
Low price goods and services						High price goods and services
Few people shopping						Many people shopping
Run-down shop exterior						Well maintained shop exterior
Busy traffic and no parking						Pedestrianised area

Total score =

Table 1.1 for Question 1

Results of shopping environment survey

Site number	Total index score (maximum score = 30)
1	14
2	13
3	17
4	19
5	20
6	24
7	25
8	30
9	28
10	21
11	19
12	17

5

Fig. 2.1 for Question 2

Fieldwork area

**Key**

G groyne

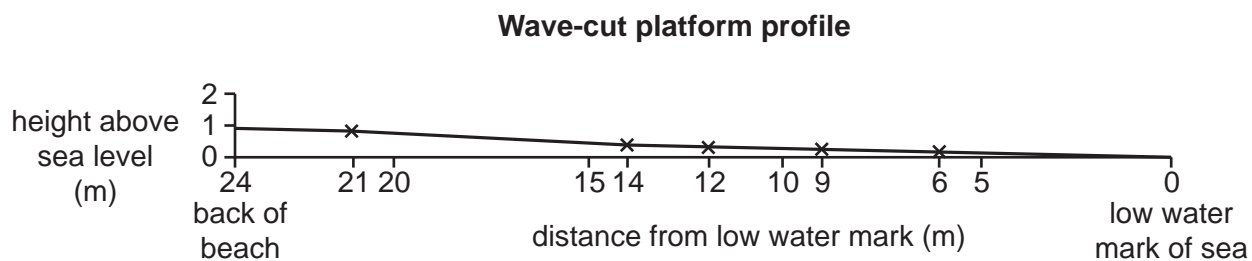
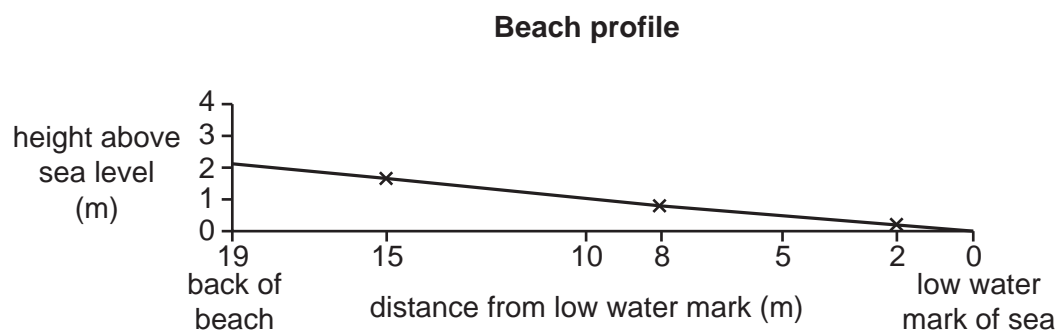
R rock armour / rip rap

Fig. 2.2 for Question 2

A student measures the beach profile



Fig. 2.3 for Question 2



Key x — x measured section of profile

Fig. 2.4 for Question 2

How to measure infiltration

- 1 Use a mallet to hammer a tube into the ground.
- 2 Pour water into the tube up to a height of 12 cm (120 mm).
- 3 Time for one minute.
- 4 Measure how many millimetres the water level in the tube has fallen.
- 5 Record the result and repeat the test twice more.

Table 2.2 for Question 2

Results of infiltration measurements

Decrease in water level in one minute (mm)									
		Beach					Wave-cut platform		
Measuring point along profile		Measurement			Measuring point along profile		Measurement		
		1	2	3			1	2	3
Sea ↓ Cliff	A	30	42	58	A	0	6	3	
	B	60	68	85	B	2	8	12	
	C	75	94	90	C	5	2	2	
	D	90	102	120	D	10	5	10	

Fig. 2.6 for Question 2

Questionnaire about coastal protection

Questionnaire

I am a student and I am doing this questionnaire as part of my *Geography* coursework. Please will you answer the following questions about coastal protection in this area?

1. Are you aware that the cliffs are being eroded?

Yes

No

2. Do you think that the cliffs should be protected against erosion by the sea?

Yes

No

Don't know

3. Coastal protection is very expensive. Do you think it is worth spending so much money?

Yes

No

Don't know

4. Which one of these protection methods would you prefer to be used?

Groynes

Breakwater

Rip rap / rock armour

Sea wall

5. Who do you think should pay for the protection work?

Local government

National government

Residents of the area

Visitors to the area

Thank you for your time

Table 2.3 for Question 2

Results of the questionnaire

Question 1: Are you aware that the cliffs are being eroded?

Yes	85%
No	15%

Question 2: Do you think that the cliffs should be protected against erosion by the sea?

Yes	71%
No	21%
Don't know	8%

Question 3: Coastal protection is very expensive. Do you think it is worth spending so much money?

Yes	67%
No	27%
Don't know	6%

Question 4: Which one of these protection methods would you prefer to be used?

Groynes	38%
Breakwater	20%
Rip rap / rock armour	13%
Sea wall	29%

Question 5: Who do you think should pay for the protection work?

Local government	19%
National government	51%
Residents of the area	11%
Visitors to the area	19%

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