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**GEOGRAPHY**

**0976/42**

Paper 4 Alternative to Coursework

**October/November 2019**

INSERT

**1 hour 30 minutes**

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**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.

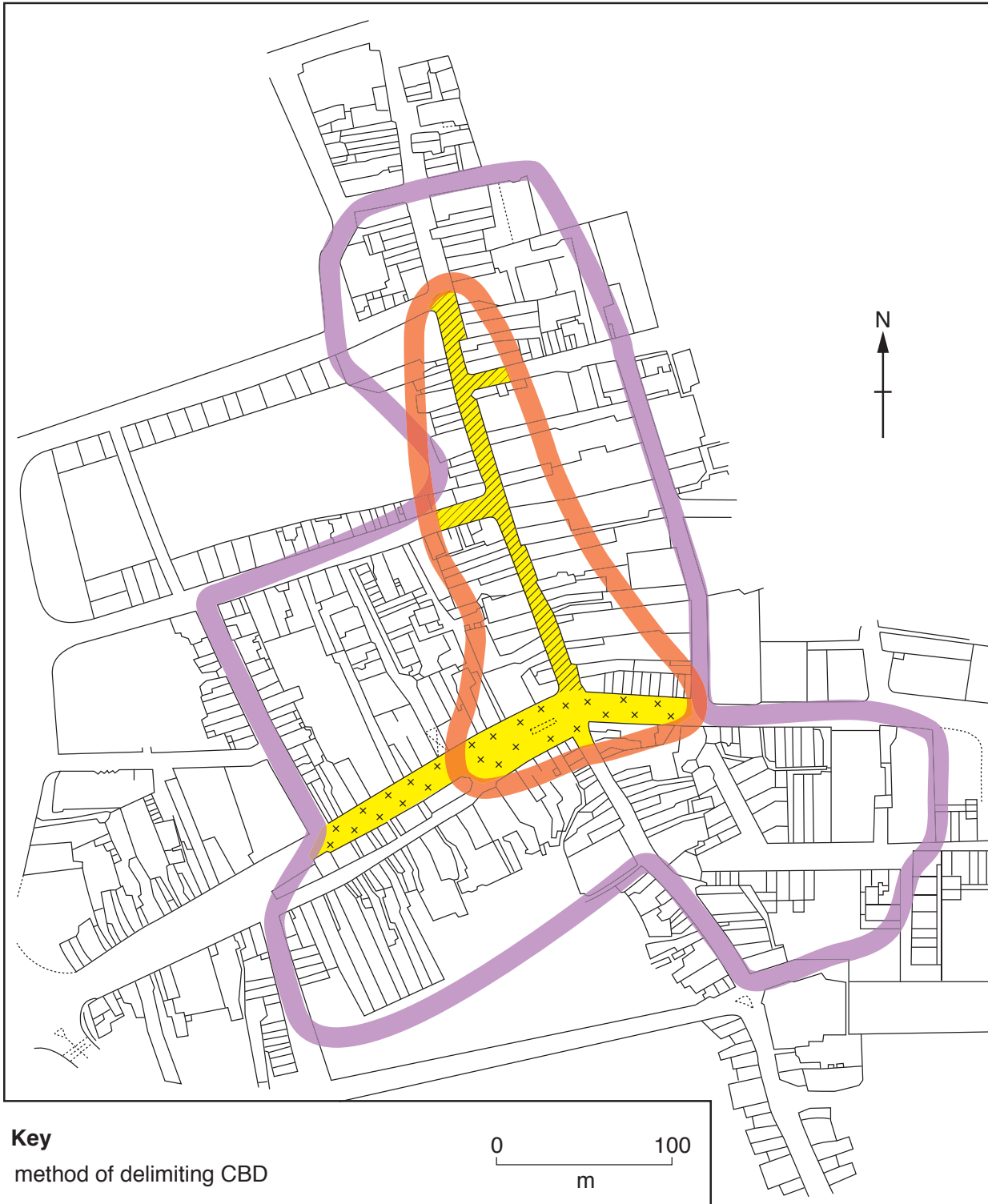


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This document consists of **10** printed pages and **2** blank pages.


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

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	<b>17</b>

Fig. 2.1 for Question 2

Fieldwork area



**Key**

G groyne

R rock armour / rip rap

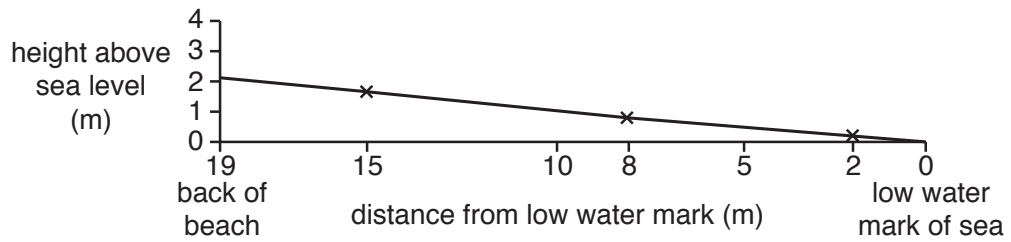
Fig. 2.2 for Question 2

A student measures the beach profile

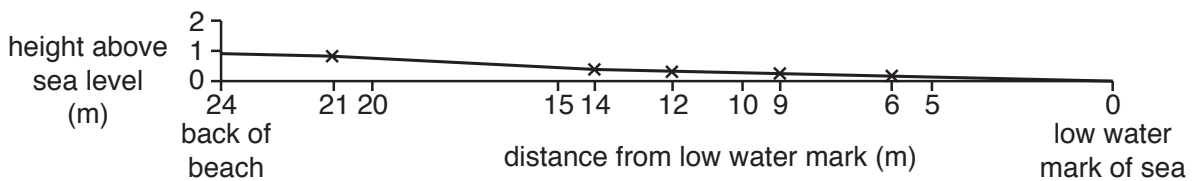


Fig. 2.3 for Question 2

## Beach profile



## Wave-cut platform profile



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	<b>58</b>	A	0	6	3	
	B	60	68	<b>85</b>	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	<b>13%</b>
Sea wall	<b>29%</b>

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

Local government	19%
National government	51%
Residents of the area	<b>11%</b>
Visitors to the area	<b>19%</b>



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