

### **Cambridge Assessment International Education**

Cambridge International General Certificate of Secondary Education (9-1)

GEOGRAPHY 0976/42

Paper 4 Alternative to Coursework

October/November 2019

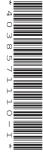
**INSERT** 

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.

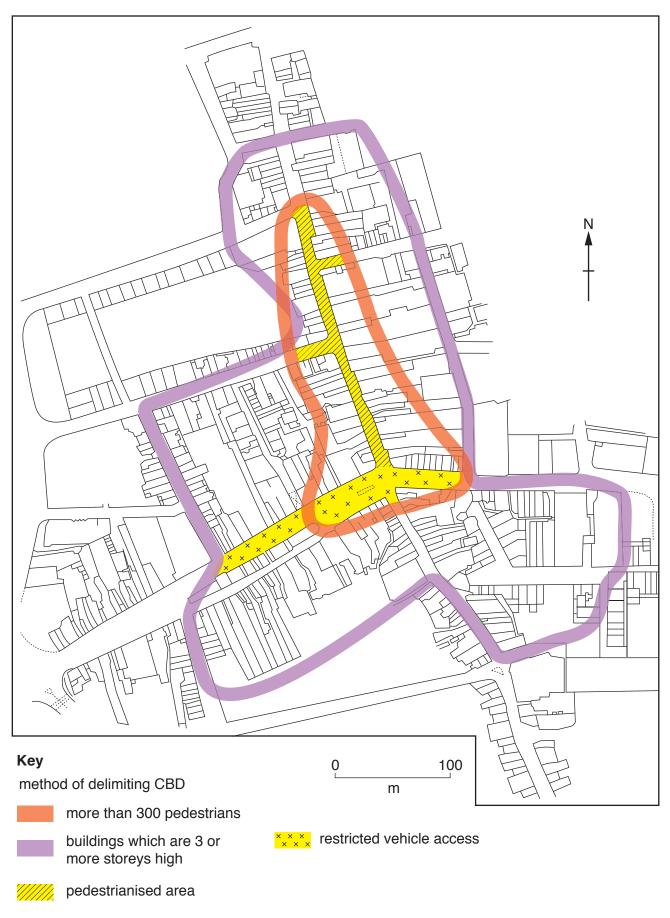


This document consists of 10 printed pages and 2 blank pages.



Fig. 1.2 for Question 1

### Students' boundaries of CBD



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# 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                                     |

Fig. 2.1 for Question 2

### Fieldwork area



## Key

G groynes

R rock armour / rip rap

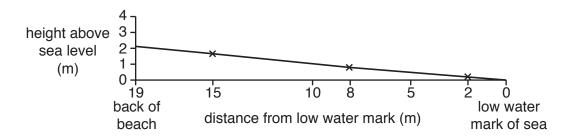
Fig. 2.2 for Question 2

A student measures the beach profile

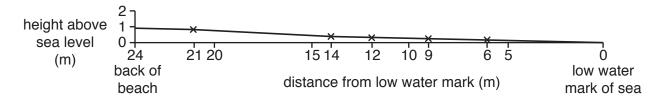


Fig. 2.3 for Question 2

### **Beach profile**



### Wave-cut platform profile



**Key** ★ 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 |             |     |                 | Wav         | e-cut plat | tform |
|     | Measuring point                            |       | Measurement |     | Measuring point | Measurement |            |       |
|     | along profile                              | 1     | 2           | 3   | along profile   | 1           | 2          | 3     |
|     | A  | 30    | 42          | 58  | A               | 0           | 6          | 3     |
| Sea | В  | 60    | 68          | 85  | В               | 2           | 8          | 12    |
| V   | С  | 75    | 94          | 90  | С               | 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 Don't know   |   |  |  |  |  |
| 3.   | Coastal protection is very expensive. Do you think it is worth spending so much money? | h |  |  |  |  |
|  | Yes 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   |   |  |  |  |  |
| The  | 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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