Cambridge Assessment International Education

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GEOGRAPHY **0460/43**

Paper 4 Alternative to Coursework **May/June 2023**

INSERT **1 hour 30 minutes**

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INFORMATION

- This insert contains additional resources referred to in the questions.
- You may annotate this insert and use the blank spaces for planning. **Do not write your answers** on the insert.

This document has **12** pages. Any blank pages are indicated.

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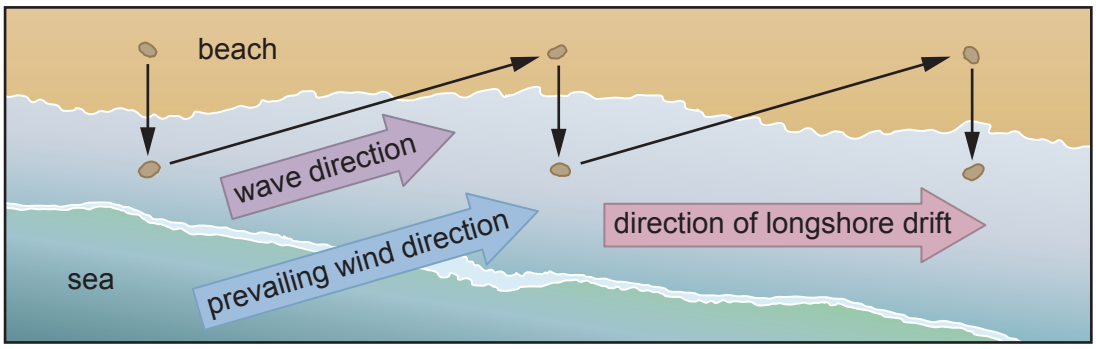
Fig. 1.1 for Question 1

Cliffs at Sheringham



Fig. 1.2 for Question 1

Longshore drift



Key

movement of pebble

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Fig. 1.3 for Question 1

Groynes at Sheringham



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[Turn over

Fig. 1.4 for Question 1

A student's fieldwork notes

How to investigate longshore drift

1. Go along the groyne from the back of the beach to the sea.
2. Use a ruler to measure from the top of the groyne to the beach.
3. Record the difference in height every two metres along the groyne.
4. Repeat this on both sides of the groyne.

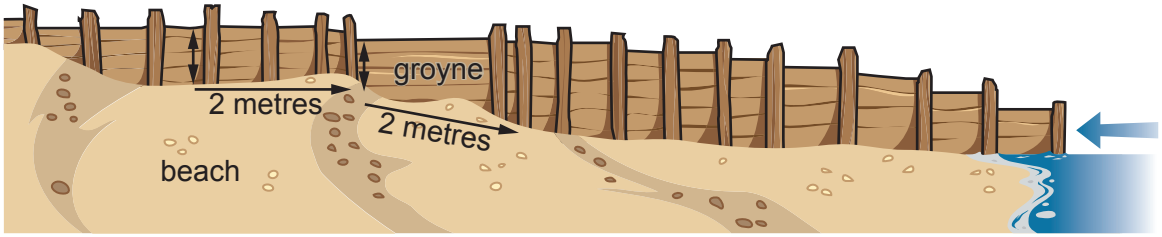


Table 1.2 for Question 1

Results of students' measurements

	difference in height between top of groyne and beach (m)	
distance along the groyne from top of the beach (m)	west side of groyne	east side of groyne
0	0.31	0.41
2	0.29	0.48
4	0.31	0.61
6	0.56	0.71
8	0.45	0.90
10	0.46	1.07
12	**0.55**	**1.30**

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Fig. 1.6 for Question 1

Coastal defences in the local area



Fig. 1.7 for Question 1

Students' bi-polar survey recording form

Coastal protection method: groyne rip rap sea wall (circle the method)

disadvantage	–2	–1	0	+1	+2	advantage
unattractive						attractive
does not protect the land						protects the land
does not stop erosion by waves						stops all erosion by waves
danger of accident walking on it						safe to walk on
stops access to beach						allows access to beach
expensive to construct						cheap to construct
construction causes lots of disturbance						construction causes little disturbance
total score = ...						

Table 1.3 for Question 1

Results of students' bi-polar survey

feature being assessed	students' score		
	groyne	rip rap	sea wall
attractiveness	**+1**	–1	–2
protection of land behind beach	–1	+2	+2
stopping wave erosion	–1	+2	+2
safety walking on it	–1	–2	–1
access to the beach	+1	–1	–2
construction costs	+2	–1	–2
disturbance during construction	+2	–1	–2

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Fig. 2.1 for Question 2

Students' shopping questionnaire

Shopping area: Barra Norte (circle)

Date: ..... Time: .....

Excuse me, I am a student at a local college. Please could you answer these questions to help me with my geography fieldwork?

1. Which borough of Rio de Janeiro do you live in?

   .....

2. Which **one** of the following do you buy most frequently when you come here to shop? Tick (✓) your answer.

food (e.g. groceries, vegetables)	
household goods (e.g. paint, cleaning materials)	
personal items (e.g. magazine, medicine)	
clothes and shoes	
electrical products (e.g. television, freezer)	
electronic goods (e.g. iPad, gaming console)	
furniture	
jewellery	

3. How long did your journey from home to the shopping centre take?

   ☐ less than 30 minutes ☐ between 30 minutes and 60 minutes

   ☐ between 61 minutes and 90 minutes ☐ more than 90 minutes

4. How did you travel to the shopping centre today?

   ☐ bus / taxi ☐ car / motorbike

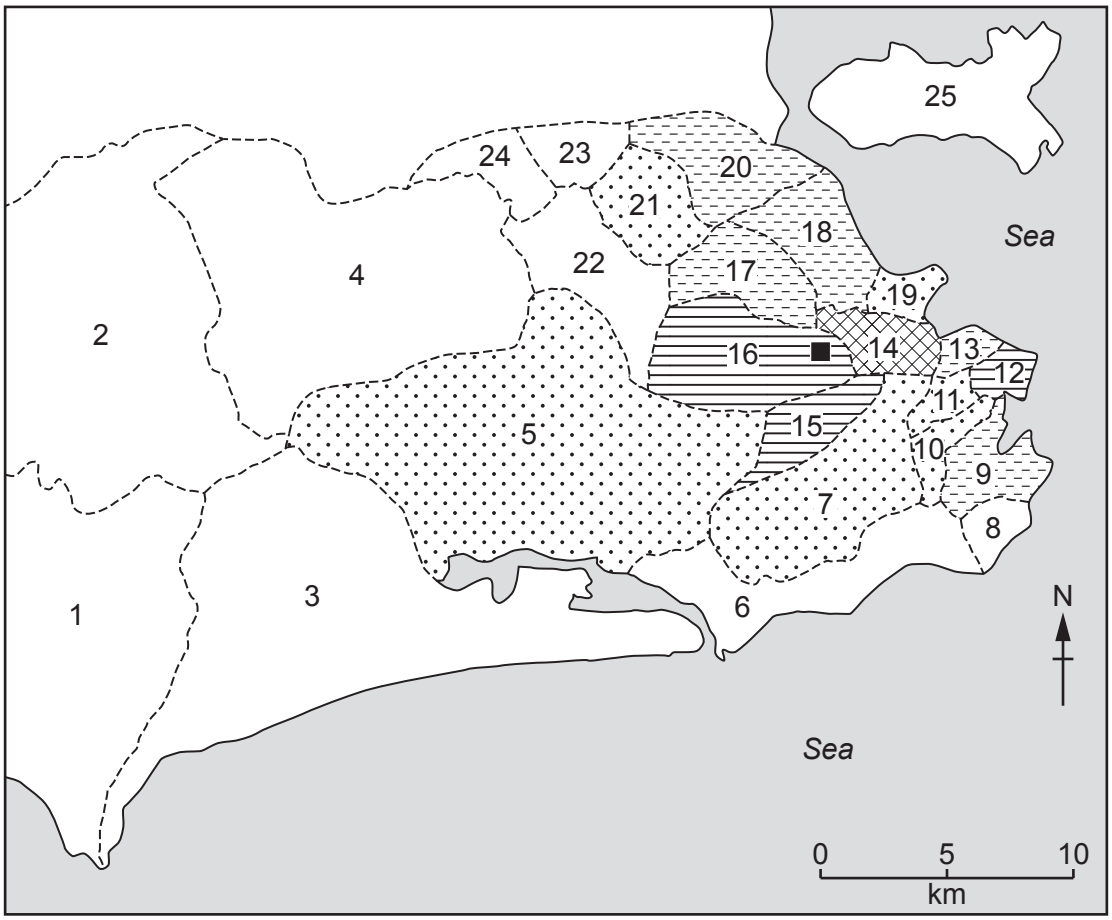
   ☐ subway train ☐ walk / bicycle

Thank you for answering my questions.

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Fig. 2.3 for Question 2

Number of people going to the Norte shopping centre



Key

- location of the Norte shopping centre
- 1, 2, 3 — names of boroughs (shown separately)
- borough boundary

number of people

- 20–29
- 10–19
- 3–9
- 1–2
- 0

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Table 2.1 for Question 2

Answers to question 2 in the questionnaire

Which one of the following do you buy most frequently when you come here to shop?

	Barra (%)	**Norte (%)**
clothes and shoes	**28**	27
jewellery	**22**	21
electrical products	20	20
electronic goods	17	15
furniture	7	9
household goods	3	2
personal items	2	4
food	1	2

Table 2.2 for Question 2

Answers to question 3 in the questionnaire

How long did your journey from home to the shopping centre take?

time taken	**Barra (%)**	**Norte (%)**
less than 30 minutes	14	21
between 30 and 60 minutes	52	59
between 61 and 90 minutes	**23**	16
more than 90 minutes	**11**	4

Table 2.3 for Question 2

Answers to question 4 in the questionnaire

How did you travel to the shopping centre today?

	Barra (%)	**Norte (%)**
bus / taxi	42	29
car / motorbike	58	11
subway train	0	55
walk / bicycle	0	5

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