Cambridge Assessment International Education

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GEOGRAPHY **0460/42**

Paper 4 Alternative to Coursework **May/June 2022**

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.

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Table 1.1 for Question 1

Average velocity results at the six sites

fieldwork site	**average velocity (metres per second)**		
	inside bank of channel (left side)	middle of channel	outside bank of channel (right side)
meander site 1	0.51	0.46	0.46
meander site 2	0.26	0.30	0.33
meander site 3	0.66	**0.72**	**0.77**
	left side of channel	middle of channel	right side of channel
straight section site 1	0.36	0.53	0.40
straight section site 2	0.77	0.72	0.67
straight section site 3	0.49	0.55	0.57

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Fig. 1.4 for Question 1

River meander

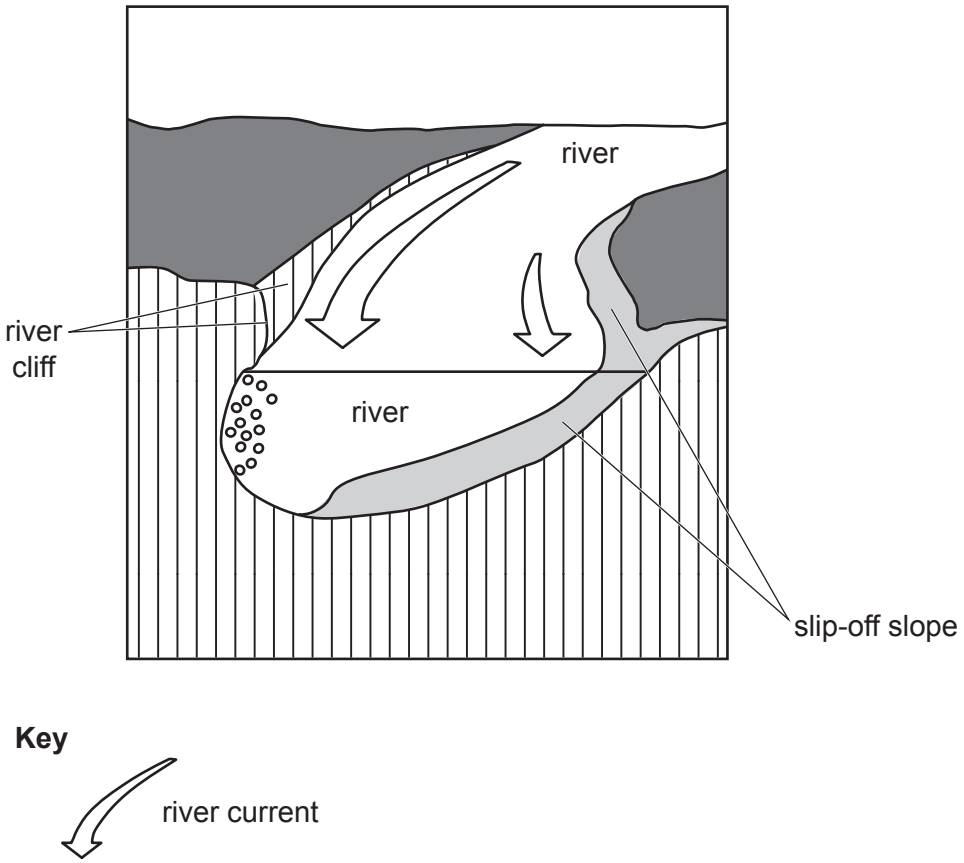


Fig. 2.1 for Question 2

Bi-polar survey sheet to assess environmental quality

site number:	score					
positive description	**+2**	**+1**	**0**	**–1**	**–2**	**negative description**
beautiful landscape						ugly landscape
unspoilt by human activity, e.g. no litter						human activity spoils the landscape e.g. litter
varied types of scenery						no variety of scenery
safe and appealing						unsafe and hostile
peaceful						noisy
human development fits in with the natural environment						development by people does not fit in with the natural environment

Total environmental quality score:

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Table 2.1 for Question 2

Student A's results of bi-polar survey

site number	attractiveness of landscape	result of human activity	variation of scenery	safety and appeal	noise level	sensitivity of human development	total environmental quality score for site
1	0	–1	0	+1	+1	0	+1
2	–2	–1	–1	0	+1	+1	–2
3	–1	–1	0	0	–1	0	–3
4	+1	–1	0	+1	+1	+1	+3
5	0	–1	0	0	+1	0	0
6	+1	0	+2	+1	+1	0	+5
7	0	0	0	+1	0	0	+1
8	+2	+1	+2	+1	+1	+1	+8
9	0	0	0	+1	+1	+1	+3
10	0	0	–1	0	+1	0	0
11	0	0	–1	–1	0	0	–2
12	+1	0	+1	+2	+1	+1	+6
13	0	–1	–1	0	0	+1	–1
14	–2	0	–2	–1	0	–1	–6
15	–1	–1	–1	–1	0	+1	**–3**
16	+1	0	+1	+1	+2	+2	**+7**
17	0	0	–1	–1	0	0	–2
18	+1	–2	+1	+1	+1	+1	+3
19	+2	+1	+1	+2	+2	+2	+10
20	+2	–2	+1	–1	+1	0	+1
total score across all sites	+5	–9	+1	+7	+14	+11	

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Fig. 2.5 for Question 2

Questionnaire

We are doing a survey about the possible benefits and problems of any future economic development on the island. It is for our Geography fieldwork. Please answer the following questions.

1. Do you live on Ubin island?

   ☐ Yes

   ☐ No

2. What do you think would be the main benefits of economic development on Ubin island?

   .....

   .....

   .....

3. What do you think would be the main problems of economic development on Ubin island?

   .....

   .....

   .....

Thank you for your time.

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Table 2.2 for Question 2

Results of questionnaire

Question 2: main benefits of economic development	number of answers
more jobs and income	82
improved standard of living	76
improved transport	61
more modern services	**42**
more goods in shops	35
more global links	27
total	323

Question 3: main problems of economic development	number of answers
destruction of natural environment	73
traffic congestion	71
noise pollution	67
air pollution	**59**
increase in cost of living	43
decline of traditional culture	34
total	347

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