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GEOGRAPHY **0460/42**

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 **8** pages. Any blank pages are indicated.

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Table 1.1 for Question 1

Results of wave frequency measurements

measurement number	number of waves breaking per minute		
	beach A	beach B	beach C
1	7	10	12
2	7	9	13
3	8	11	14
4	9	11	12
5	8	10	15
6	8	8	13
7	7	10	14
8	10	9	13
9	8	9	15
10	9	11	12
average	8.1	9.8	**13.3**

Fig. 1.2 for Question 1

Measuring a beach profile

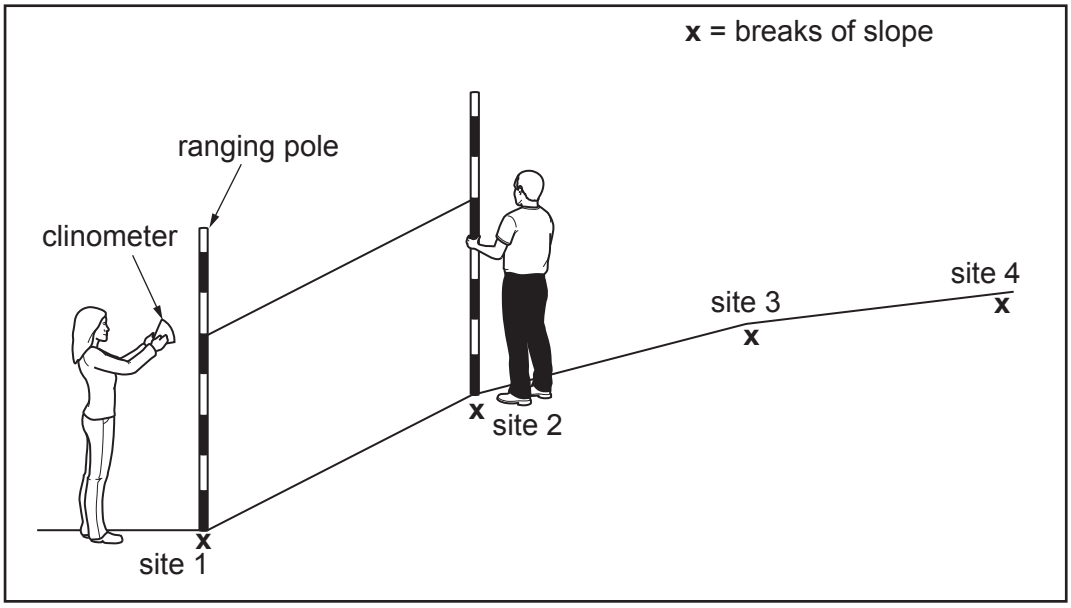


Table 1.2 for Question 1

Results of angle of slope measurements

		beach A	beach B	beach C
	measurement from	**angle of slope in degrees (°)**	**angle of slope in degrees (°)**	**angle of slope in degrees (°)**
low water mark	site 1 to site 2	5	6	7
↕	site 2 to site 3	**9**	7	10
	site 3 to site 4	8	11	11
	site 4 to site 5	3	5	13
	site 5 to site 6	4	7	9
	site 6 to site 7	6	5	12
	site 7 to site 8	3	8	8
	site 8 to site 9	4	8	14
	site 9 to site 10	2	7	12
	site 10 to site 11		5	9
back of beach	site 11 to site 12		6	
average angle of slope		4.9	**6.8**	10.5

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Table 1.3 for Question 1

The size of pebbles measured at beach C (in order of size)

size of pebble (cm)	size of pebble (cm)
3.0	9.8
3.4	11.1
3.6	11.6
3.7	11.7
4.1	12.2
4.5	12.7
4.5	12.9
6.1	13.5
6.7	13.8
6.9	14.2
7.2	14.5
8.4	14.5
8.6	14.7
9.3	14.8
9.8	14.9

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Fig. 2.1 for Question 2

Resident questionnaire

Chamaita Kanyam (circle the name of the village)

I am doing a survey about economic development in the village. It is for my Geography fieldwork. Please answer the following questions.

1. Which one of the following describes your level of education?

☐ no formal education

☐ primary school education

☐ secondary school education

☐ higher education

2. What type of fuel do you use for cooking in your house?

☐ biogas ☐ charcoal ☐ electricity

☐ firewood ☐ liquefied petroleum gas (LPG)

3. What is the main type of fuel used for lighting in your house?

☐ battery ☐ candles

☐ electricity ☐ kerosene

4. What is your main type of work or employment?

.....

5. What are the main problems which restrict economic development in the village?

.....

.....

Thank you for your time.

Table 2.1 for Question 2

Results of Question 1 in the questionnaire

Level of education

	Chamaita inhabitants (%)	Kanyam inhabitants (%)
no formal education	30	**25**
primary school education	40	**17**
secondary school education	22	**43**
higher education	8	**15**

Table 2.2 for Question 2

Results of Question 2 in the questionnaire

Fuels used for cooking

fuel	percentage (%) of households in Chamaita	percentage (%) of households in Kanyam
biogas	6	10
charcoal	27	11
electricity	14	39
firewood	46	30
LPG	7	10

Table 2.3 for Question 2

Results of Question 3 in the questionnaire

Fuels used for lighting

fuel	percentage (%) of households in Chamaita	percentage (%) of households in Kanyam
battery	6	3
candles	33	22
electricity	30	**46**
kerosene	31	**29**

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Table 2.4 for Question 2

Results of Question 4 in the questionnaire

Main types of work in Chamaita

type of work or employment	Chamaita inhabitants (%)
subsistence farming	90
local food market trader	5
tool repairer	3
water carrier	2

Table 2.5 for Question 2

Results of Question 4 in the questionnaire

Main types of work in Kanyam

type of work or employment	Kanyam inhabitants (%)
tourist accommodation	35
tourist guide	**22**
local gift shop	20
tea plantation or tea factory	18
subsistence farming	5

Table 2.6 for Question 2

Results of Question 5 in the questionnaire

Problems which restrict economic development in Chamaita

problem which restricts economic development	number of answers
isolation due to lack of roads	80
young adults move away to cities in Nepal or go abroad	73
lack of electricity	64
lack of piped water supply	58
poor sanitation	49
insufficient teachers in the school	40

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