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GEOGRAPHY 0460/43

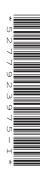
Paper 4 Alternative to Coursework

October/November 2021

INSERT 1 hour 30 minutes

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.

Table 1.1 for Question 1

Results of students' measurements

	site	velocity (m/sec)	wetted perimeter (m)
upstream	1	0.4	3.5
†	2	0.5	5.1
	3	0.6	7.4
	4	1.2	7.8
downstream	5	1.6	12.1

Fig. 1.3 for Question 1

A fieldwork notebook

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Fig. 1.5 for Question 1

Powers' Scale of Roundness

very angular	angular	slightly angular	slightly rounded	rounded	very rounded

Table 1.2 for Question 1

Students' results of measuring roundness of rocks

	dn	upstream ▲							—► downstream	tream
	S	site 1	Š	site 2	S	site 3	<u>'</u>	site 4	\ \frac{1}{\sqrt{\sq}}}}}}}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	site 5
	number of rocks	percentage	number of rocks	percentage	number of rocks	percentage	number of rocks	percentage	number of rocks	percentage
very angular and angular	9	30	5	25	~	2	က	15	0	0
slightly angular and slightly rounded	10	50	ω	40	6	45	7	55	10	50
rounded and very rounded	4	20	7	35	10	50	9	30	10	50

Fig. 2.1 for Question 2

Route of by-pass road

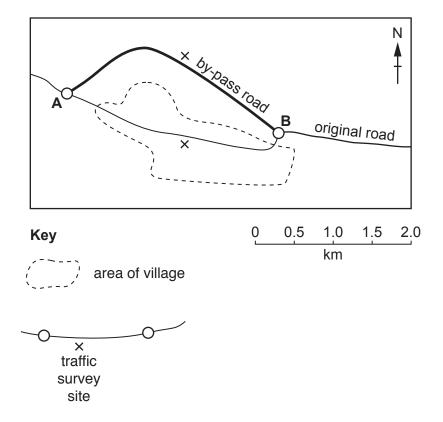


Table 2.1 for Question 2

Traffic survey results in the village 2016

time	vehicle category			
	car/bike/taxi	van/minibus	lorry/bus/coach	total
07:30-08:00	140	28	22	190
10:30–11:00	109	21	17	147
13:30–14:00	122	22	18	162
16:30–17:00	151	26	21	198
19:30–20:00	70	14	4	88

Table 2.2 for Question 2

Traffic survey results in the village 2018

time	vehicle category			
	car/bike/taxi	van/minibus	lorry/bus/coach	total
07:30-08:00	45	13	9	67
10:30–11:00	41	11	6	58
13:30–14:00	42	11	7	60
16:30–17:00	50	14	12	76
19:30–20:00	20	8	2	30

Fig. 2.2 for Question 2

Students' recording sheet

Road surveyed:	(circle)	Time: (circle)
roa	d through village	07:30-08:00
	by-pass road	10:30–11:00
		13:30–14:00
		16:30–17:00
		19:30–20:00
Vehicle		
category		Total
Car/bike/taxi		
Van/minibus		
Lorry/bus/coach		

Table 2.3 for Question 2

Traffic survey results on the by-pass road 2018

time	vehicle category			
	car/bike/taxi	van/minibus	lorry/bus/coach	total
07:30-08:00	97	18	13	128
10:30–11:00	65	13	16	94
13:30–14:00	69	15	12	96
16:30–17:00	104	18	13	135
19:30–20:00	42	10	3	55

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