

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

GEOGRAPHY 0460/04

Paper 4 Alternative to Coursework SPECIMEN MARK SCHEME

For Examination from 2016

1 hour 30 minutes

MAXIMUM MARK: 60



2

1	(a)	eas	nd would affect temperature; ier to see effects of building/ground surface; ifall would affect relative humidity	2 @ 1 mark	[2]
	(b)	(i)	Away from the influence of buildings; no trees nearby to create shade; on grass so this will not absorb heat/alter temperature.	2 @ 1 mark	[2]
		(ii)	Max. temperature 12–13 °C inclusive; min. temperature 1–2 °C inclusive; present temperature 3–3.2 °C inclusive.	3 @ 1 mark	[3]
	(c)	(i)	Quick/instant reading Accurate to a decimal point		[1]
		(ii)	Unsure if same location for each reading; height at waist will vary between people;		
			student error in timing; 3 days may not be long enough for reliable figure; effect of body heat on reading.	1 @ 1 mark	[1]
		(iii)	Temperature will change during the day; shows the range of temperature during the day.	1 @ 1 mark	[1]
	(d)				
			rnings always colder than afternoons. e of paired statistics to show change to 2 marks max.		[4]
	(e)	(i)	G: 5.4° at 9 m, H: 5.8° at 2 m.	2 @ 1 mark	[2]
		(ii)	Best fit line straight or curved;	1 @ 1 mark	[1]
		(iii)	Hypothesis is true (1 mark reserve) Negative relationship on graph/temperature decreases as distance increases Anomaly at C – highest temperature but not nearest to building Use of paired statistics to show change to 1 mark maximum		[4]
		(iv)	Buildings/tarmac/concrete absorb heat from sun or internal heating system Buildings radiate heat around them Aspect/south facing/facing sun Funnelling effect of buildings Shade from sun by trees/buildings	2 @ 1 mark	[2]
				_ 🐷a.ix	[—]

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	(f)	Site = 7 Cre not	es with plants = A + B + F = 75 + 77 + 73 = 225/3 = 75%. es without plants = C + D + E + G + H = 76 + 75 + 73 + 75 + 77 = 376/5 5.25%. edit "No" or negative statement. a higher relative humidity. hark for calculations, 1 mark for decision		[2]
					(— <u>)</u>
	(g)	(i)	Hypothesis 2 – <u>To some extent/No (1);</u> little difference/almost same between areas with and without vegetation.		[2]
		(ii)	Collect data on more than three days; collect data more than twice a day; collect data in other months/other seasons; students check each other's readings;		
			Same person takes readings to reduce height difference.	3 @ 1 mark	[3]
				[Total: 30 ma	rks]
2	(a)	(i)	Secondary		[1]
		(ii)	Data collected by students/oneself		[1]
	((iii)	Questionnaire/pedestrian count/traffic count/river depth measurements		[1]
	(b)	(i)	Pie chart completion Dividing line = 1 mark, shading = 1 mark		[2]
		(ii)	Most visitors come by car More come by bus or coach than by train None come by bike		[2]
	((iii)	Car gives independence/flexibility to travel Train service may be infrequent		[1]
	((iv)	Completion of 'very difficult' = 3 symbols		[1]
	(c)	(i)	Completion of bar graph using No. column – walking = 15 and other = 9 Do not credit % figures	d 2 @ 1 mark	[2]
		(ii)			[4]
	((iii)	More visitors skiing in winter Fewer come for other activities in winter – cycling/walking		[2]

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(iv) Length of stay:

If tourists stay longer in the village they spend more money Demand for different services such as restaurants if people stay more than 1 day

Accommodation:

If most people visit for 1 day less accommodation is needed More demand for hotels creates most jobs/most income Youth hostel/campsite may create more demand for bars/fast-food

1 mark reserve for length of stay and accommodation

[3]

(v) Divided bar graph completion dividing line correct = 1 mark, shading = 1 mark

[2]

(d) Hypothesis is true/generally true (1 mark reserve)
Residents' views on effects of tourism are generally positive
40% of residents say there are no main problems
Credit paired use of statistics to support evidence to 2 marks max

[4]

(e) Equipment – recording sheet, watch
Suggested locations of traffic survey
Times of traffic survey during day
Different days of week – weekday and weekend
Different seasons to compare results
Methodology – tally system
Reliability – e.g. all surveys done at same time

[4]

[Total: 30 marks]

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