UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0460 GEOGRAPHY

0460/41

Paper 4 (Alternative to Coursework), maximum raw mark 60

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2			Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2010	0460	41
(a)	(i)	3			[1]
	(ii)	4 (a	ccept tally or total)		[1]
	(iii)	20			[1]
(b)	(i)	Res	h shops are used by local residents and tourists. ult would depend on when students did the survey. v would the students distinguish between local resid		[2]
	(ii)	Wha tour	vey / ask shop owners. at is the balance between residents and tourists / ists. vey / ask the customers where they come from / are		by residents or
	(iii)		ark for plotting line accurately. ark for shading (order doesn't matter).		[2]
	(iv)	More by to Only The Lots	, agree with hypothesis ✓Ha e than half the shops / 55% / 22 shops / higher pe ourists. / 22% / 9 shops are used mainly by local residents. se 9 shops would also be used by tourists. s of / most numerous shops are gift shops which are ops are used by both tourists and residents.		are used mainly [2
(c)	(i)	Impo	I / practise / before real survey. ortant to see if the scoring system works / if i hodology.	it needs to be r	nodified / study [2]
	(ii)	Too Too Whit inve Whe Surv How Gen	 many survey points to choose. few points and the survey is without substance. many points and the survey is time consuming. ch characteristics / criteria will be measured in the stigate. ere to locate the survey sites / which sites to investigively sites must be at different distances from the car will they score the survey (what level will each nur eric decision – how many students will go to each 	gate. · park. nber represent).	-
		Gen eacl			ey / who

Page 3		Mark Scheme: Teachers' version	Syllabus	Paper		
		IGCSE – October/November 2010	0460	41		
(d) (i)	1 m:	ark for line at +1 on D.				
(a) (i)		ark for shading both bars.				
		1 marks		[
(ii)	Simi	larity: litter / noise / tourist signs and adverts all sco	rod samo / 1			
(")		erence: Crowding is -2 at A and 0 at C / A is more c				
		rist buildings is -1 at A and 0 at C / more tourist buil		[
(iii)	(iii) Either: hypothesis is true √Ha					
()		generally true / not completely true / there is one exe	ception √Ha.			
	Evid	ence to support conclusion or identify the anomaly	(/ / R)			
		mark	(А/В) -			
	Sites	s A and B have more impact than sites C and D				
		periences the least tourist impact and is furthest fro				
		s nearer car park are more affected than sites away vever, B experiences a bigger impact than A, even t				
		nearer to the car park	nough			
(iv)	Sitor	s A / B nearer to:				
(1•)		rist shops / tourist services / tourist buildings				
		n road				
	Hote					
	Car	рагк				
		s C / D:				
		y from the main tourist area rer to local shops				
		rer to housing areas				
		-				
		arks maximum for A/B or C/D Jouble credit for opposites				
				I		
(e) An	v issu	e – 1 mark reserve.				
	(e.g. Peoples' jobs, level of education, amount of green space, traffic, other aspect of tourisn					
Pos	Possible investigation on where tourists to the village come from, how they travel to the					
		heir likes and dislikes of the village.				
	Methodology – reference to:					
	Questionnaire					
	Appropriate sampling technique Examples of questions to be asked.					
	ly cha	•				
		and graphing of responses.		[
				[Total: 3		
				Listano		

Page 4			Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2010	0460	41
(a)	(i)	Burn Burn Smo Facto Exha CFC	ng fossil fuels ng coal ng oil ng vegetation ke from steam train pries releasing gases into atmosphere ust emissions / fumes / gases from cars / plan s Spraying insecticides 1 marks	nes	[2
((ii)	Trees Soil leach Glob Melti Rise Incre	ty increases in lakes; causing fish to die s are damaged as acid water falls onto leaves water becomes acidic; which affects nutrier		ants; increase
(b)	Win	id blov	vs most frequently / most often / most commo	on direction /main wind	direction. [
(c)	(i)		vane / wind sock. gauge / measuring cylinder / container with n	neasurements.	[;
((ii)	Take Take	led many measurements for reliability of resu account of change in wind direction. s some account of seasonal variation / no sea in average / total each month.		[;
·	iii)	Scho Diffic Meas Studi Equij Interi Diffic Canr	y have been difficult to take measurements e ol holidays / access to school at weekends / f ult to take readings at the same time each da suring instruments are not very accurate. ent error. oment breaks. erence from other students / animals. ult to measure small amounts of rainwater wh out take pH reading from a trace amount.	forgetfulness / illness. y . nen recorded as trace.	s. [
(i	iv)	pH v	thesis 1 is correct / generally correct / partiall alue is lower / more acidic when wind blows fi naly – North & South East have same pH.		
		Cred	it any two figures for 1 mark.		[;
((v)	east Thes oxide Whe Depo	er station / factories / motorways / airport / ra of the school / upwind. e are main sources of gases / chemicals / a s. n wind blows from the east it carries these ga sits them on the school as acid rain when it ra it either reference to 'east'.	ir pollution / sulphur di ses.	

Page 5		5	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2010	0460	41
(d)	(i)	Plot	ting points: 2 @ 1 mark.		
		Drav	v in best-fit line = 1 mark.		[
	(ii)	Grap nega As ti Can	, do agree with students √Ha. oh shows as the number of dry days increase the ative or inverse relationship. he number of dry days increases rainfall is more ac use two sets of figures to compare. . 0 dry days = 5.7 pH, 10 dry days = 4.3 Ph)		ling decreases
(e)	(i)	(e.g. Surv Sele Devi Poss	sible hypothesis ✓Ha. Water pollution of a stream increases downstream vey study area and note possible pollution sources. act about 10 sites for more detailed survey. ise a recording sheet for measurements. sible tests, (e.g. clarity, survey of water species sparency, quantity of litter).	,	ture, pH, wat
		Crea	e marks maximum. dit 1 mark for equipment / clothing. ept detailed description of methods for one test.		[
	(ii)	Mon Take abou	ommendations such as: itor pollution levels closely e action to reduce pollution levels / warning signs ut level of pollution. slation to prevent pollution / fines.	/ litter / wardens	/ warn factorie

[Total: 30]