MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

2217 GEOGRAPHY

2217/21

Paper 2 (Investigation and Skills), maximum raw mark 90

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
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Section A

1 (a) (i)

Feature	Grid Reference	Direction	Seen from point X?
Breakwater	826838	W	Yes
Martello Tower	824827	<u>SW</u>	No
Reservoir	848842	NE	Yes
Reservoir	<u>840848/9</u>	N	Yes
Bridge	860818	SE	No

[4]

	(ii)	NW 500 (metres)	[2]
(b)	(i)	Inland areas Lower land / avoids high land Flat or gently sloping / avoids steep slopes River valleys Adjacent to road areas	[3]
	(ii)	Lower land is more accessible Flatter land is easier for machines Flat land has better soils River for water supply	[3]
(c)	Hot Poli Mai	ce Station	
		alth Centre	[4]
(d)	(i)	Embankments	[1]
	(ii)	Direct line goes over mountain / avoids mountain Flat land Links coastal settlements Access to coast all along	
		Transport route for salt industry	[3]
		[Total:	20]

	Page 3		8	Mark Scheme: Teachers' version	Syllabus	Paper
				IGCSE – October/November 2010	2217	21
2	(a)	(i)	Swa	sh up beach and backwash down beach		[1]
		(ii)	Arro	w from left to right		[1]
	(b)	(i)		mark for each line division. 1 if not labelled		[2]
		(ii)	55%			[1]
						[.]
		(iii)		gshore drift usually right to left te cliffs in up-drift direction		[2]
		(iv)		gshore drift from left to right when wind is different be grey rocks further up-drift		[1]
						[Total: 8]
3	(a)	Dei Wh Slo	cleate nse / ite / s ping ı	ed buildings close together stone coloured rooves nong buildings		[2]
	(b)			ver meander to gorge / on hill		
		We	t poin	it		
		At t	oridge	e point		[2]
	(c)	• • •	good unde acce advar very	e to town d view of river eveloped land ess road ntages r steep slope – building and access Is natural area		
		Two		ks in each section		[4]
						[Total: 8]

	Page 4		Syllabus	Paper
		IGCSE – October/November 2010	2217	21
4	(a) (i)	River cliff on vertical bank Point bar on flat bank		[2]
	(ii)	E below river cliff, D on right upward slope (Must both be underwater)		[1]
	(iii)	Correct shading.		[1]
	(iv)		[2]	
		lercuts epens erhang falls in		
		k moves back / river course moves north		[2]
				[Total: 8]
5	(a) (i)	С		[1]
	(ii)	E		[1]
	(iii)	15–20 km		[1]
	(b) (i)	Frequent visits for food Travel to have better choice		[2]
	(ii)	Better choice Another reason for visiting D Transport link to D		
		Specialist shop Better prices / sale etc.		[2]
	(c) Are	a must include all villages with lines to B and exclude al	lothers	[1]
				[Total: 8]

Pa	Page 5		Mark Scheme: Teachers' version	Syllabus	Paper
		21			
(a)	(i)		rce is not used up reated faster than used		[1]
	(ii)	Wind Sola Tida Bion	r I		
			thermal		[1]
(b)		•	/ divided / labelled		[2]
(c)	(i)	Coa	I		[1]
	(ii)	Fluc) = 12 quadrillion Btu tuating increase to 1970) = 20 quadrillion Btu		
			dy decrease from mid 1980's		[3]
					[Total: 8]

	Page 6			Mark Scheme: Teachers' version	Syllabus	Paper
				IGCSE – October/November 2010	2217	21
				Section B		
7	(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. would the students distinguish between local reside	ents and tourists.	[2]
		(ii)	Surv Wha touri	vey / ask shop owners. at is the balance between residents and tourists / i	is the shop used	
		(iii)		ark for plotting line accurately. ark for shading (order doesn't matter).		[2]
		(iv)	More by to Only Thes 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. of / most numerous shops are gift shops which are ops are used by both tourists and residents.		are used mainly [2]
	(c)	(i)	Impo	/ practise / before real survey. ortant to see if the scoring system works / if it nodology.	needs to be n	nodified / study [2]
		(ii)	Too Too Whic inve Whe Surv How	a 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 investig yey sites must be at different distances from the car will they score the survey (what level will each num	ate. park. ber represent).	Ţ
			each	eric decision – how many students will go to each s n site – 1 mark maximum. 1 mark	site / time of surve	ey / who goes to

3 @ 1 mark

[3]

Page 7	7	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2010	2217	21
(d) (i)	1 ma	ark for line at +1 on D. ark for shading both bars. 1 marks		[2
(ii)	Diffe	larity: litter / noise / tourist signs and adverts all sco 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	rowded.	[;
(iii)		er: hypothesis is true	ception √Ha.	
	2nd Sites D ex Sites How	ence to support conclusion or identify the anomaly mark s A and B have more impact than sites C and D speriences the least tourist impact and is furthest fro s nearer car park are more affected than sites away rever, B experiences a bigger impact than A, even the nearer to the car park	m the car park from the car park	[:
(iv)	Tour Mair Hote	s A / B nearer to: rist shops / tourist services / tourist buildings n road els park		
	Awa Nea	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 louble credit for opposites		[
		e – 1 mark reserve. oples' jobs, level of education, amount of green space	ce, traffic, other as	pect of touris
		investigation on where tourists to the village corneir likes and dislikes of the village.	me from, how the	y travel to th
Qu App Exa	estion propria ample	ate sampling technique s of questions to be asked.		
	ly cha pping	and graphing of responses.		[4
				[Total: 2

[Total: 30]

	Page 8			Mark Scheme: Teachers' version	Syllabus	Paper		
				IGCSE – October/November 2010	2217	21		
8	(a)	 (i) Burning fossil fuels Burning coal Burning oil Burning vegetation Smoke from steam train Factories releasing gases into atmosphere Exhaust emissions / fumes / gases from cars / planes CFCs Spraying insecticides 2 @ 1 marks 						
	(Tree Soil leacl Glob Melti Rise Incre	ity increases in lakes; causing fish to die s are damaged as acid water falls onto leaves water becomes acidic; which affects nutrient upt	ake to trees / pl	ants; increased		
			Lina			[0]		
	(b) \	Wine	d blo	ws most frequently / most often / most common dire	ection /main wind	direction. [1]		
	(c)			d vane / wind sock. gauge / measuring cylinder / container with measu	rements.	[2]		
	(Take Take	ded many measurements for reliability of results / fa account of change in wind direction. as some account of seasonal variation / no seasona an average / total each month.		[2]		
	(i		Scho Diffic Mea Stud Equi Inter Diffic	ay have been difficult to take measurements every d bol holidays / access to school at weekends / forgetf cult to take readings at the same time each day . suring instruments are not very accurate. ent error. pment breaks. ference from other students / animals. cult to measure small amounts of rainwater when re- not take pH reading from a trace amount.	fulness / illness.	s. [3]		
	(i		pH v	othesis 1 is correct / generally correct / partially correct alue is lower / more acidic when wind blows from the maly – North & South East have same pH.				
			Crec	lit any two figures for 1 mark.		[3]		
	(-	east Thes oxide Whe Depo	n wind blows from the east it carries these gases. osits them on the school as acid rain when it rains.		oxide / nitrogen		
			Ciec	lit either reference to 'east'.		[3]		

Page 9)	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2010	2217	21
(d)	(i)	Plot	ting points: 2 @ 1 mark.		
		Drav	w in best-fit line = 1 mark.		[3]
	(ii)	Grap nega As ti Can	, do agree with students √Ha. ph shows as the number of dry days increase the ative or inverse relationship. he number of dry days increases rainfall is more aci use two sets of figures to compare. . 0 dry days = 5.7 pH, 10 dry days = 4.3 Ph)		ling decreases / [2]
(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. ect 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, water
		Crea	? marks maximum. dit 1 mark for equipment / clothing. ept detailed description of methods for one test.		[4]
	(ii)	Mon Take abou Legi Edue	ommendations such as: itor pollution levels closely e action to reduce pollution levels / warning signs ut level of pollution. islation to prevent pollution / fines. cation / publicity campaign to reduce pollution / m sing pollution.		

[Total: 30]