UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

www.papaCambridge.com 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.

					Syllabus 2217 Apar	
Page	2	Mark Scheme: Teacl	ners' versior	n	Syllabus	Nr.
		IGCSE – October/No	vember 201	0	2217	
	,	S	ection A			Ambridge.co.
(a) (i)	/					
(a) (i	Feature	Grid Re	ference	Direction	Seen from point X?	60

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	

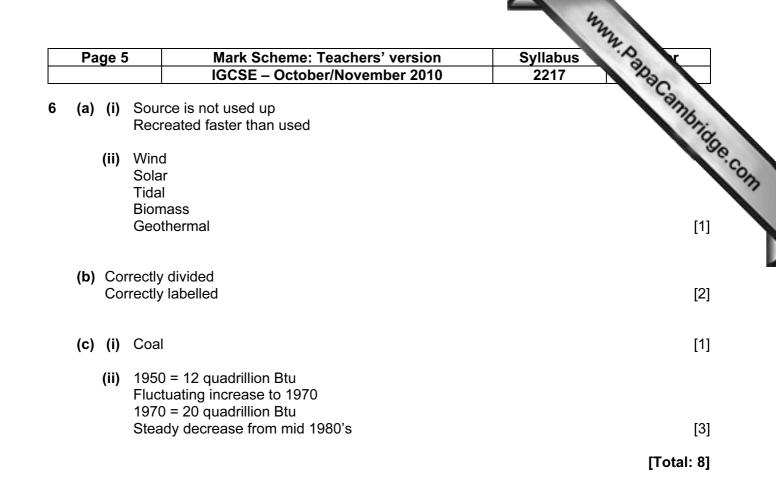
	(ii)	NW 500 (metres)	[2]
(b)	(i)	Inland areas Lower land / avoids high land Flat or gently sloping / avoids steep slopes River valleys Adjacent to road areas	[3]
	(ii)	Lower land is more accessible Flatter land is easier for machines Flat land has better soils River for water supply	[3]
(c)	Mar	ice Station	[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]

[4]

Page 3	Mark Scheme: Teachers' version IGCSE – October/November 2010	Syllabus 2217
(a) (i)	Swash up beach and backwash down beach	Camp
(ii)	Arrow from left to right	Syllabus 2217 Abacambh
	One mark for each line division. Max 1 if not labelled	[2
(ii)	55%	[1
• •	Longshore drift usually right to left White cliffs in up-drift direction	[2
	Longshore drift from left to right when wind is different Maybe grey rocks further up-drift	[1
		[Total: 8
Den Whit Slop	leated ise / buildings close together te / stone coloured bing rooves es among buildings	[2
Adja Wet	nin river meander acent to gorge / on hill : point ridge point	[2
• • Disa •	antages close to town good view of river undeveloped land access road advantages very steep slope – building and access spoils natural area flooding o marks in each section	[4
		[Total: 8

Page 4	Mark Scheme: Teachers' version Syllabus	a
	IGCSE – October/November 2010 2217	1020
	r cliff on vertical bank t bar on flat bank	www.papacambridg
	low river cliff, D on right upward slope at both be underwater)	[1]
(iii) Corr	ect shading.	[1]
	passing through all 0.2 m/s points correct in relation to all other points	[2]
(b) Undercut Steepens Overhan Bank mo	3	[2] [Total: 8]
(a) (i) C		[1]
(ii) E		[1]
(iii) 15–2	20 km	[1]
	uent visits for food el to have better choice	[2]
Tran	her reason for visiting D sport link to D	
	cialist shop er prices / sale etc.	[2]
	st include all villages with lines to R and evolute all others	[1]
(c) Area mu	st include all villages with lines to B and exclude all others	נין



Pa	age 6		Mark Scheme: IGCSE – Octobe	Teachers' version		Syllabus 2217	20.	K.
					10	2217		
				Section B				mb
(a)	(i)	3						19
	(ii)	4 (accent	tally or total)				www.papa	
	. ,							
	(iii)	20						[1]
(b)	(i)	Such sho	os are used by loca	I residents and to	ourists			
(~)	(-)	Result wo	uld depend on whe	en students did th	ie survey.			
		How woul	d the students disti	nguish between l	local reside	ents and touris	sts.	[2]
	(ii)		nsk shop owners. The balance betwee	n residents and	tourists / i	e the chop us	and by reside	onte or
		tourists.				s the shop us	sed by reside	
		Survey / a	ask the customers v	where they come	from / are	they tourists.		[2]
	(iii)		plotting line accur	-				
		1 mark for	r shading (order do	esn't matter).				[2]
	(iv)	-	e with hypothesis ✓		biobox po	nontono / mo	of any used	mainly
		by tourists	n half the shops / 5 s.	55% / 22 Shops /	nigher pe	icentage / inc		пашу
			/ 9 shops are used hops would also be					
		Lots of / n	nost numerous sho	ps are gift shops	which are	tourist shops.		
		9 shops a	re used by both tou	irists and residen	nts.			[2]
(c)	(i)	Trial / pra	ctise / before real s	urvev.				
(-)	()	Important	to see if the sco		orks / if it	needs to be	e modified /	-
		methodolo	ogy.					[2]
	(ii)		y survey points to c oints and the surve		tanco			
		•	points and the surve					
		Which ch	aracteristics / crite			e survey / wh	at do they v	vant to
		investigat	e. locate the survey s	ites / which sites	to investig	ate		
			es must be at diffe		-			
		How will t	hey score the surve	ey (what level will	l each num	ber represent	t).	
			ecision – how man		o to each s	ite / time of su	urvey / who g	joes to
		each site	– 1 mark maximum	l.				[3]

3 @ 1 mark

[3]

Page 7		Mark Scheme: Teachers' version			Syllabus	· ~
		IGCSE – Octol	ber/November 20	10	2217	102
(d) (i)		or line at +1 on D. or shading both bai arks	rs.			ww.panacambridg
(ii)	Differenc	/: litter / noise / tou ce: Crowding is –2 uildings is –1 at A	at A and 0 at C / A	is more cro	d same / –1. wded. ngs at A.	[2]
(iii)		ypothesis is true ✓ rally true / not com		is one exce	ption √Ha.	
	2nd mark	e to support conclu k and B have more in	-		/B) -	
	D experie Sites nea However	ences the least tou arer car park are m ⁻ , B experiences a l	rist impact and is the nore affected than	urthest from sites away fr	om the car par	
	A is near	er to the car park				[2]
(iv)			ces / tourist buildir	ıgs		
	Nearer to	D: m the main tourist b local shops b housing areas	area			
		maximum for A/B on the credit for opposition of the credit for opposition				[4]
		l mark reserve. s' jobs, level of edu	cation, amount of	green space	, traffic, other a	aspect of tourism)
		estigation on wher ikes and dislikes o		village come	e from, how th	ney travel to the
Que	stionnair					
A	ropriate s	ampling technique)			
Exa	mples of	questions to be as	ked.			
Exa Tally	mples of y chart.	questions to be as graphing of respo				[4]

[Total: 30]

Page	8	Mark Scheme: Teachers' version	Syllabus Syllabus	
		IGCSE – October/November 2010	2217 23	
(a) (i)	Burr Burr Smo Fact Exha CFC	ning fossil fuels ning coal ning oil ning vegetation oke from steam train cories releasing gases into atmosphere aust emissions / fumes / gases from cars / planes cs Spraying insecticides 1 marks	Syllabus 2217 Banacan	brios [2]
(ii)	Tree Soil leac Glob Melt Rise Incre	lity increases in lakes; causing fish to die es are damaged as acid water falls onto leaves water becomes acidic; which affects nutrient upt	ake to trees / plants; increa	ased [3]
<i></i>				
(b) W	and blo	ws most frequently / most often / most common dire	ection /main wind direction.	[1]
(c) (i)	,	d vane / wind sock. n gauge / measuring cylinder / container with measu	rements.	[2]
(ii)	Take Take	ded many measurements for reliability of results / fa e account of change in wind direction. es some account of seasonal variation / no seasona an average / total each month.		[2]
(111)	Scho Diffio Mea Stud Equi Inter Diffio	ay have been difficult to take measurements every d ool holidays / access to school at weekends / forgett cult to take readings at the same time each day . isuring instruments are not very accurate. dent error. ipment breaks. rference from other students / animals. cult to measure small amounts of rainwater when re- not take pH reading from a trace amount.	fulness / illness.	[3]
(iv)	pH v	othesis 1 is correct / generally correct / partially corr value is lower / more acidic when wind blows from th maly – North & South East have same pH.		
	Crea	dit any two figures for 1 mark.		[3]
(v)	east Thes oxide Whe	en wind blows from the east it carries these gases.		
		osits them on the school as acid rain when it rains. dit either reference to 'east'.		[3]

Page 9		Syllabus Syllabus
	IGCSE – October/November 2010	2217 23
d) (i)	Plotting points: 2 @ 1 mark.	cannb.
	Draw in best-fit line = 1 mark.	
(ii)	Yes, do agree with students ✓Ha. Graph shows as the number of dry days increase the negative or inverse relationship. As the number of dry days increases rainfall is more aci Can use two sets of figures to compare.	- . -
	(e.g. 0 dry days = 5.7 pH, 10 dry days = 4.3 Ph)	[
e) (i)	Possible hypothesis √Ha. (e.g. Water pollution of a stream increases downstream Survey study area and note possible pollution sources. Select about 10 sites for more detailed survey. Devise a recording sheet for measurements. Possible tests, (e.g. clarity, survey of water species transparency, quantity of litter).	, ,
	To 2 marks maximum. Credit 1 mark for equipment / clothing. Accept detailed description of methods for one test.	Ŀ
(ii)	Recommendations such as: Monitor pollution levels closely Take action to reduce pollution levels / warning signs about level of pollution. Legislation to prevent pollution / fines. Education / publicity campaign to reduce pollution / m causing pollution.	

[Total: 30]