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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

0460 GEOGRAPHY

0460/43

Paper 43 (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 May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	Pag	je 2		Syllabus	2 L				
			IGCSE – May/June 2010	0460	TOO				
1	(a)		Mark Scheme: Teachers' version IGCSE – May/June 2010 ntroduction gives no context to questionnaire 21 is too vague – need town/city/country or is too personal 22 2 & 3 are irrelevant to hypotheses 24 repeats idea of Q1/answers wont be accurate 25 is a closed question and gives no extra information 26 is negative 27 is personal Final comment is abrupt/no thanks/informal/impolite/unfriendly No multiple choice alternatives/tick boxes Will have to write down full answers/no space to write answers Difficult to analyse/collate results No question about activities which people did/key question for hypothesis 1 Illogical order of questions/age question is last Answers don't need to refer to specific questions in questionnaire NOT question is unacceptable – must say why NOT questionnaire is too short [3 @ 1 = 3] ntroduction explains who is doing questionnaire & why/friendly Positive introduction – won't take up much time 2s 1, 2 & 3 ask for precise/quick responses/choices for people to tick 2s 4 & 5 are open/positive/ask for opinions Thanks at the end Gender information is recorded without questioning Questions are relevant to hypotheses						
			Answers are easy to collate/graph Can credit opposites to (i) Answers don't need to refer to specific questions in qu	ıestionnaire					
			NOT clear/easy to understand – must say why		[2 @ 1 =2]				
	((iii)	Simple to organise/clear rationale Reduces bias in sample/fair test Respondents cannot influence each other/discuss ans	swers	[2 @ 1 = 2]				
	((iv)	Lots of people to ask/many people park there In middle of national park so more likely to be used by Accept negative comment about other locations	tourists	[1]				
	(v) Why: People would be better equipped to answer questions about time spen activities/what they liked Waited until people had enjoyed the day's activities								
			Disadvantage: People are tired at end of a busy d	ay/cannot be bother	ed to answer				

People in a rush to set off for home

May not get enough answers and too late to do anything about it

Will only question people in cars/miss out people who don't come by car

[1 + 1 = 2]

questions

			2
Page 3	Mark Scheme: Teachers' version	Syllabus	.0
	IGCSE – May/June 2010	0460	100
(b) (i) Bar	graph completion – need dividing line & labels (Yes	s/No)	Cally

- (b) (i) Bar graph completion need dividing line & labels (Yes/No) Allow tolerance from 72–75 or 22–28
 - (ii) Pie graph completion 1 mark (4 or 5 days, longer than 5 days) Shading/labels in key 1 mark Allow 1% tolerance
 - (iii) Insert figures for sightseeing: 5 in 51–65 age group column 11 in total column

 Both correct for 1 mark

[1]

(iv) Hypothesis is partially/generally true/Yes/age does influence activities – reserve mark Physical/lively/active activities are more popular with younger people Such as cycling/mountain biking/horse riding/running/jogging Less physical/leisurely/relaxed activities are more popular with older people Such as sightseeing/driving/visiting historic buildings/shopping/bird watching Walking is popular with all age groups, doesn't support hypothesis/exception Some activities are popular only with specific age groups – climbing: 21–50/walking (over 5 km) not with over 65

Credit exception such as 2 people under 20 visit historic buildings

No data mark NOT 'high risk' activities

[4]

- (c) (i) 1 Easy to get to
 - 2 Scenery
 - 3 Opportunity to do my favourite activity/Peace & guiet

[3 @ 1 = 3]

(ii) Improvements:

New walking routes signposted: visitors will not get lost/easier to explore More car parks: not waste time looking for a parking space/not have to walk as far/not need to use public transport/safe and secure

NOT more visitors

Better toilet facilities: improved visitor comfort/more hygienic/less distance to facilities More cafes and refreshment facilities: improved visitor comfort/will not go hungry/rest & drink/relax/don't have to bring own food/don't have to leave park to eat More cycling horse riding routes: planned route to follow/away from traffic More information boards: visitors can learn about the area

NOT stop people getting lost

Improved footpath surfaces: easier/safer to walk on/less muddy/cleaner

[2 @ 1 = 2]

(iii) Yes true/most visitors do have a positive opinion – reserve mark

Because; visitors gave examples of activities (Table 3)/opportunity to do favourite activities

Visitors said what they liked (Table 4) - e.g. peace & quiet

Visitors gave positive ideas for improvements (Table 5) / no serious problem/complaint Most visitors had visited more than once and returned (Table 1)

Many visitors were staying more than one day (Table 2)

1 mark maximum on each Table

Responses only based on one day in one national park/visitors not asked direct question: Do you like/have a positive view of national parks? [3]

Page 4		Mark Scheme: Teachers' version Sy	llabus			
		IGCSE – May/June 2010	1460			
(d) (Whe How	ere do you live?/nationality ere do you come from? of far have you travelled to get to the national park? of long have you spent travelling to the park?	llabus r Adda Cannbhid			
(i	Map Type 1 ma	uping data/categorise/results table tally chart b / type of graph – bar/pie/divided rectangle/pictogram e of map – choropleth/dot distribution/flow lines/desire lines ark for each of above ideas if appropriate to question in (i) ept presentation ideas, even if question in (i) is wrong				
	NOT	questionnaire/tick boxes	[3]			
			[Total: 30]			
W D W K D T	(a) Don't do fieldwork/check conditions if river is in flood/deep/fast-flowing Wear strong shoes/wellingtons to protect feet Don't do fieldwork alone – at least two preferably three people/group Wear waterproofs to keep warm/protective clothing/light clothes which will do Keep a look out for dangerous animals Don't do fieldwork if river is badly polluted/don't drink water/Veil's disease Tell someone where you are going/take a mobile phone for emergency Complete in daylight/before it gets dark May be slippery rocks/bank					
N	IOT dor	n't run around/push each other in/swim in river	[3 @ 1 = 3]			
(b) (Time Rep	sure section along river e floats over measured section eat timing exercise at points 1, 2 and 3 across river culate surface velocity: <u>distance</u> time	[3]			
(i	Ens	t rule/ruler on river bed - NOT 'in river' ure rule is upright/vertical e reading of water surface on rule/measure part of stick wh	ich is wet			
	Low Marl	suggest string & weigh & tape measure er string to river bed k / observe water level on string sure wet section				
		repetition of measuring across river credit for equipment – must describe its use	[3]			
(ii	Velo Alter velo poin Velo	ocity is greater near the outer bank of the meander/sample ocity decreases towards the inner bank/sample point 1 rnative to above ideas: velocity varies at different point ity across river/velocity increases from sample to 1 to point 3 – NOT wording of hypothesis ocity is greater where river is deeper/least where river is shadit 1 mark (not reserve) for two comparative figures from	allow			

Credit 1 mark (not reserve) for two comparative figures from 18, 41, 72 or difference

[2]

between them

No hypothesis mark

		32										
Pa	ige 5	5	Ma			achers' v			Syllabus	3	3	
				IGCSE	E – May <i>i</i>	June 20	10		0460		200	
(c)	Age 5 Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2010 0460 Only measuring surface velocity Measurements could be affected by external influences such as - floats get stuck on vegetation - strong wind may interfere with movement of float Route taken by floats is unpredictable Floats all move into main current of river, so not really testing velocity across a meand Too few sampling points Only taking one measurement at each sampling point/need to do more Random positioning of sample points/not equal distances apart NOT human error weaknesses such as inaccurate timing/distance measurement [3 @								eander			
(d)	(i) Put flow meter on the bed of river/into river Must be held vertically Stand downstream or to the side of the flowmeter Propeller must be facing upstream Propeller spins/moves Record digital reading/display shows velocity Take several readings and calculate average											
		NOT	take mea	suremen	ts at diff	erent poi	nts in river					[3]
	(ii)		pletion of s 1 mark t			d isoline						[2]
	(iii)	Shad	ling on dia	agram the	e area w	here velo	city is greate	r thar	1 40cm pe	er secon	d	[1]
	(iv) Agree/partly agree with hypothesis – reserve mark Supporting data – two current measurements: e.g. 40-37-19 cm per second But where current is strongest there is exception/hypothesis doesn't apply exacross meander Here the greatest velocity is at about 1/3 of depth/just under water surface Supporting data – two current measurements: e.g. 60-68-70 cm per second Then velocity does decrease below 1/3 of depth											
		Allow	two mark	s for cor	nparativ	e figures	(not reserve))				[4]
	(v)	Veloc	city near b	ed/banks	s of char	nnel redu	th atmosphere ced by friction ngest/river is	n with		ost enerç	ЭУ	
		NOT	'velocity i	s greater	on outs	ide'						[2]
(e)	Gre Velo Diffo	eater ve ocity re erence ocity fa	elocity sliquelocity whe duces need need need need need need need ne	iere river ear bed/b	is deep panks channel	er on a strai	ght section	raigh t	cotion			
	Velocity decreases more evenly towards bed/banks on straight section											

1 mark reserve for similarity/difference

[Total: 30]

[4]