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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2011 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.

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

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



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Section A

1	(a)	(i)	Railway	[1]
		(ii)	Wide Tarred	[1]
		(iii)	1568 (metres)	[1]
		(iv)	Dip tank	[1]
		(v)	Bridge	[1]
		(vi)	2	[1]
	(b)	780	878/9	[1]
	(c)	(i)	1800 – 2100	[1]
		(ii)	11.28	[1]
		(iii)	159 – 187	[1]
	(d)	(i)	Completion of cross-section with line going down	[1]
		(ii)	Road at 27 – 31mm from left axis River at 45 – 48mm from left axis	[2]
	(e)	On On	ar water supply / rivers flatter land lower land ar buildings / African village / kraal / huts	2
	(f)	(i)	Flows west to east Tributaries Meanders Rapids Gentle gradient	[2]
		/::\		[3]
		(ii)	Section across bridge Completion of either route to edge of the area	[2]

[Total: 20]

Г	age 3)	Mark Scheme: Teachers' version	Syllabus	Paper
			GCE O LEVEL – May/June 2011	2217	21
(a)	(i)	Corr	ect completion of pyramid		[1]
	(ii)	4			[1]
	(iii)	Ken	ya		[1]
(b)	Kei US US	nya ha A has A has	as more young dependents as more young workers under 24 more of working age more 25+ more old dependents		[2]
(c)	Kei	nya −	v – Stage 5 - Very low birth rate / very low young pop. / Stage 2 or 3 – High(er) birth rate / high young pop. / ra tage 4 – Low birth rate / similar size pop. in each group	pidly increasing	pop.
					[Total: 8]
(a)	Lin Pat No	ths / tr	stones racks / compacted ground		[2]
(b)	(i)	Dry	season		[1]
	(ii)	Brov Dry	leaves / bare trees vn leaves ground / soil undergrowth		[2]
(c)	(i)	Corr	ect plot on graph		[1]
	(ii)		tember		[2]
		ОСР			رے [Total: 8]
					[]
(a)	Ma On Bet Bet On Thi	inland e on S ween ween e off d ree ne	near / in sea I Italy, towards west, in central area Sicily Sicily and Italy Sicily and Tunisia coast at / near Naples ear Naples th of Rome		[4]

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		-	GCE O LEVEL – May/June 2011	2217	21
((b) (i) Vul	cini		[1]
	(ii) Vol	cano and Pantelleria		[1]
((c) (i) For	Vesuvius / Etna – on land / near city		[1]
	(ii) For	Stromboli – in sea		[1]
					[Total: 8]
5 ((a) (i) Cor	rect completion of pie chart		[2]
	(ii	71%	6		[1]
(. ,		has more residential use a has more industrial use		
			a has more transport use		[3]
(has high rainfall (to fill reservoirs) / Australia has lack or has valleys to contain reservoirs / } Australia has flat la		
			has hills to give head of water / } Australia has flat l		[2]
					[Total: 8]
6 ((a) (i	Flat Rive Acc Har Hur Lab Mar Offi Doc Mot	rsical factors I land by river For for transport For valley routeway For sess to sea Four / estuary for port For man / Economic factors Four from housing areas For the housing areas For facility in CBD For for export / import Forway / main road for transport Forway / for each section)		[4]
	(ii) HEI Oil			[1]
(ishing orestry			[1]
((c) (i) Cor	mpletion of pictograph with 4 whole cars		[1]
	(ii) 150	000 cars		[1]
					[Total: 8]

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Syllabus

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(a) (i)	Dangers such as: Skin irritation Swallowing polluted / poisonous water Water gets in eyes Rats in the water Infection in open wound Fumes Chemicals in water Disease / bacteria / filth in water Broken glass / physical objects Algae Precautions such as: Gloves / waterproof clothing / protective clothing Masks Goggles Wellingtons / waders / boots Don't drink water Wash hands when completed work	
	Must be dangers of pollution not just river [2 + 2]	[4]
(ii)	Smell Foam / debris / material in river Discolouration / colour Dead fish / animals Sample water / test pH Contact government body / local authority responsible for river [2 @ 1]	[2]
(b) (i)	Most visible pollutants in the river nearest to the factory / visible pollutant decreases downstream – accept distances or sites Ammonia level high after / near factory / ammonia level decreases further downstream – accept distances or sites Oxygen level drops / low after / near factory / oxygen level rises further downstream accept distances or sites	[2]
(ii)	downstream – accept distances or sites Ammonia / pollution is high as waste water from factory goes into river	[2]
(11)	Ammonia / pollution decreases downstream as it mixes with water /dissolves River current helps to disperse / spread pollution More water / tributaries dilute pollution	[2]
(c) (i)	To move the animals into water / disturb animals / to find / to catch / collect animals	[1]
(ii)	Net should be downstream (if upstream allow correct explanation) So that animals float into net/ flow with water / water flows towards net	[2]
(iii)	To get a Biotic Index score for each animal / to see how polluted water is / tell them about quality of water	[1]
(iv)	To find the part of the bed where most animals live To get an average Biotic score for the site To make the test results more reliable / fair / accurate average / more results to compare	[1]

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			GCE O LEVEL – May/June 2011	2217	21	
(d)	` '		for 1 mark ver = 6 for second mark			[2]
	(ii)		points on Fig. 3 4 plot must use the answer from part (i)		[2 @ 1]	[2]
		Lowe	est average Biotic Index (B.I.) score is at site 1 / beforest average / decreases B.I. score is at site 2 / at wasters is 2 to site 5 B.I. score increases ite 5 B.I. is still lower than site 1			
		2 pie	ces of data from graph = 1 max			[3]
	(iv)	In m	apolluted water: stonefly / mayfly / caddis fly are found ost polluted water: leech / rat-tailed maggot / bloodwor biotic score where water not polluted / low biotic score	m are found (ar		[2]
(e)	Was Peo Disp Nitra Farr Sew Coo Oil f	shing ple wosal ates / mani age / ding v	/ litter clothes vashing themselves of dead bodies fertilisers / pesticides mals drinking water / human waste vater from power stations / hot water from power stations coats / refineries	ons	[2 @ 1]	[2]
(f)	Velo Cros Bed Inve Mea Cred Cred	ocity / ss-se load stiga surin dit red dit an	sis (1 reserve) such as: discharge varies downstream / across a meander ction varies downstream varies downstream tion involving floats, timing, measured distance, flowing poles, clinometer, quadrat, roundness index cording data in field alysis to test hypothesis – e.g. best-fit line, correlation or hypothesis, 3 marks for fieldwork techniques			[4]

[Total: 30]

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8 (a) (i)	Students only want to ask tourists / questionnaire is for tourists Most people they approach will not be tourists Not waste people's time If include non-tourists results will be unreliable / wrong info	[2]
(ii)	Explain difference between physical and human attractions More specific information than just asking people to name attractions Easier to classify results To see which type of attraction is more popular Both types of attraction / wider choice of attractions to attract tourists	[2]
(iii)	Most / highest number tourists come from Asia Least / lowest number of tourists from Africa More from Asia than S America (or other 2 areas) Tourism is international / tourists come from around the world	
	1 mark for data if interpreted e.g. 1/3 from Asia	[2]
(iv)		[2 @ 1] [2]
(v)	Divided bar graph / pie graph / pictograph 1 mark for appropriate graph 1 mark for drawing, 1 mark for labelling	[3]
(vi)	Disagree with students Hypothesis was true / agree with hypothesis / physical attractions broug visitors Overall 38 say physical compared with 32 say human Results are close / similar 170 visits to physical attractions & 140 visits to human attractions Popular physical attractions – mountains, waterfall, elephant camp Credit anomaly such as night bazaar was very popular human attraction Credit use of paired figures for individual attractions	ght more
(b) (i)	One idea for selecting interviewees, e.g. every tenth person walking past intervals / one person per minute	/ regular [1]
(ii)	Yes: data is more manageable Prioritising their ideas Stops them listing everything To see if more than one positive / negative Hard to choose just one idea / wider choice More data No: May have views about more than two impacts Too much data Information not required in hypothesis	[2]

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Syllabus

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(c)	(i)	2 nd c	hoice: 16 x 2 =32 hoice: 10 x 1 = 10 I score = 42		[2]		
	(ii)	Plot	result of calculation in part (i) on Fig. 7B		[1]		
	(iii)	53 thou Over nega Mair	hypothesis is correct / tourism has positive effect hought tourism was a positive influence & 8 thought ght it was positive r 80% (87) thought it was positive / less than 20 ative / 7 times as many thought it was positive than negroup of the following it as first shoils?	% (13) though	t it was		
((iv)	Loca Mos Traff	ut of 61 gave it as first choice al people can see more taxis / tuk-tuks t affected by these / affected daily fic congestion slows them down travelling / stops them	getting to work	[4] on time		
			ollution makes it difficult to breath ollution from planes / trains bringing tourists		[2]		
(d)	Do a traffic survey on main streets at different times of day and night E.g. tally, 10 min period of time, 3 times per day, both sides of road in pairs Compile a questionnaire / interview to ask drivers/pedestrians/local officials Ask questions such as: Where is traffic congestion worst?						
	і эу	oui ju	ourney to work/school delayed?		[3]		
	[Total: 30						

[Total: 30]