UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS **GCE Ordinary Level** 

## www.papacambridge.com 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.

Page 2	Mark Scheme: Teachers' version	Syllabus of er
	GCE O LEVEL – May/June 2011	2217 232
	Section A	Phillip .
(a) (i) F	Railway	1
(ii) V	Vide Tarred	Syllabus 2217 Bacambrie [1]
<b>(iii)</b> 1	568 (metres)	[1]
(iv) 🗆	Dip tank	[1]
(v) E	Bridge	[1]
<b>(vi)</b> 2		[1]
( <b>b)</b> 78087	78/9	[1]
( <b>c) (i)</b> 1	800 – 2100	[1]
<b>(ii)</b> 1	1.28	[1]
<b>(iii)</b> 1	59 – 187	[1]
( <b>d) (i)</b> C	Completion of cross-section with line going down	[1]
	Road at 27 – 31mm from left axis River at 45 – 48mm from left axis	[2]
	water supply / rivers atter land	
	wer land buildings / African village / kraal / huts	2
T N	lows west to east ributaries Meanders	
	Rapids Gentle gradient	[3]
	Section across bridge Completion of either route to edge of the area	[2]
		[2]

Page 3	Mark Scheme: Teachers' version Syllabus	er
	GCE O LEVEL – May/June 2011 2217	1
( <b>a) (i)</b> Co	Mark Scheme: Teachers' version Syllabus   GCE O LEVEL – May/June 2011 2217   rrect completion of pyramid nya	amb
<b>(ii)</b> 4		1
(iii) Ke	nya	[1
Kenya USA ha	has more young dependents has more young workers under 24 as more of working age as more 25+	
USA ha	as more old dependents	[2]
Kenya	ny – Stage 5 - Very low birth rate / very low young pop. / decreasing pop. – Stage 2 or 3 – High(er) birth rate / high young pop. / rapidly increasing pop. Stage 4 – Low birth rate / similar size pop. in each group / low pop. increase	[3]
	דן	otal: 8
Paths / Noticet	f stones tracks / compacted ground	[2]
( <b>b) (i)</b> Dr	y season	[1]
Bro	w leaves / bare trees own leaves y ground / soil undergrowth	[2
INC		Ľ۲.
( <b>c) (i)</b> Co	rrect plot on graph	[1]
(ii) Ju Se	y ptember	[2]
	דן]	otal: 8
Mainlar One or Betwee Betwee One of	I / near / in sea nd Italy, towards west, in central area Sicily In Sicily and Italy In Sicily and Tunisia F coast at / near Naples near Naples	

Three near Naples Two north of Rome

[4]

Pa	ige 4	ļ.	Mark Scheme: Teachers' version GCE O LEVEL – May/June 2011	Syllabus 2217	DaCambridge.c.
(b)	(i)	Vulc	· · · · · · · · · · · · · · · · · · ·		Cant
	(ii)	Volc	ano and Pantelleria		stidge
(c)	(i)	For	Vesuvius / Etna – on land / near city		[1]
	(ii)	For	Stromboli – in sea		[1]
					[Total: 8]
(a)	(i)	Corr	rect completion of pie chart		[2]
	(ii)	71%			[1]
(b)	Aus	stralia	has more residential use has more industrial use has more transport use		[3]
(c)	Vie	tnam	has high rainfall (to fill reservoirs) / Australia has lack of has valleys to contain reservoirs / } Australia has flat la has hills to give head of water / _ } Australia has flat la	andscape	[2]
					[Total: 8]
(a)	(i)	Flat Rive Rive Acce Hart Labo Mart Offic Docl	sical factors land by river er for transport er valley routeway ess to sea bour / estuary for port <u>han / Economic factors</u> our from housing areas ket in housing areas ket in housing areas ce facility in CBD k for export / import orway / main road for transport serve 1 for each section)		[4]
	(ii)	HEF Oil			[1]
(b)	Fisl For	hing estry			[1]
(c)	(i)	Corr	npletion of pictograph with 4 whole cars		[1]
	(ii)	150	000 cars		[1]
					[Total: 8]

Page \$	Mark Scheme: Teachers' version Syllabus er GCE O LEVEL – May/June 2011 2217	
	Section B	1
(a) (i)	Mark Scheme: Teachers' version   Syllabus     GCE O LEVEL – May/June 2011   2217     Section B   Section B     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	STIDGE
	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)	Ammonia / pollution is high as waste water from factory goes into river 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]

Page 6	Mark Scheme: Teachers' version Syllabus	· · · · · · · · · · · ·	,
	GCE O LEVEL – May/June 2011 2217	No.	
(d) (i)	36/6 for 1 mark Answer = 6 for second mark	12 @ 1]	bild
(ii)	Plot points on Fig. 3 Site 4 plot must use the answer from part <b>(i)</b>	[2 @ 1]	[2]
(iii)	Highest average Biotic Index (B.I.) score is at site 1 / before factory Lowest average / decreases B.I. score is at site 2 / at waste pipe From site 2 to site 5 B.I. score increases By site 5 B.I. is still lower than site 1 2 pieces of data from graph = 1 max		[3]
(iv)	In unpolluted water: stonefly / mayfly / caddis fly are found (any 1) In most polluted water: leech / rat-tailed maggot / bloodworm are found High biotic score where water not polluted / low biotic score where pollu	· · ·	[2]
Was Pec Dis Nitr Far Sev Coc Oil	bish / litter shing clothes ple washing themselves bosal of dead bodies ates / fertilisers / pesticides m animals drinking water vage / human waste ling water from power stations / hot water from power stations from boats / refineries	[2 @ 1]	[2]
., ,	othesis (1 reserve) such as: ocity / discharge varies downstream / across a meander ss-section varies downstream		

Page 7	7	Mark Scheme: Teach	ers' version	Syllabus 🔗 e	r
i ugo i		GCE O LEVEL – May		2217	
(a) (i)	Mos <sup>-</sup> Not v	ents only want to ask tourists / c people they approach will not b vaste people's time lude non-tourists results will be	questionnaire is for tou oe tourists		10 ios
(ii)	More Easi To s	ain difference between physical specific information than just a er to classify results ee which type of attraction is mo types of attraction / wider choic	sking people to name a pre popular		[2]
(iii)	Leas More Tour	/ highest number tourists come t / lowest number of tourists from e from Asia than S America (or c ism is international / tourists cor rk for data if interpreted e.g. 1/3	m Africa other 2 areas) ne from around the wo	rld	[2]
(iv)	Com	pletion of bar graphs		[2 @ 1]	[2]
(v)	1 ma	ed bar graph / pie graph / pictog rk for appropriate graph rk for drawing, 1 mark for labell			[3]
(vi)	Hype visite Over Resi 170 Pope	gree with students othesis was true / agree with h ors all 38 say physical compared w ilts are close / similar visits to physical attractions & 14 ilar physical attractions – mount it anomaly such as night bazaal it use of paired figures for indivi	ith 32 say human 40 visits to human attra ains, waterfall, elephan r was very popular hum	actions nt camp	[4]
(b) (i)		idea for selecting interviewees, vals / one person per minute	e.g. every tenth perso	on walking past / regular	[1]
(ii)	Prior Stop To s Harc More No: I Too	data is more manageable itising their ideas s them listing everything ee if more than one positive / ne to choose just one idea / wider data May have views about more tha much data mation not required in hypothes	choice n two impacts		[2]

GCE O LEVEL – May/June 2011 2217   (c) (i) 1 <sup>st</sup> choice: 16 x 2 = 32 2 <sup>nd</sup> choice: 10 x 1 = 10 Total score = 42 (ii) Plot result of calculation in part (i) on Fig. 7B   (iii) True / hypothesis is correct / tourism has positive effect 53 thought tourism was a positive influence & 8 thought it was negative / thought it was positive Over 80% (87) thought it was positive / less than 20% (13) thought	DahaCambilds
53 thought tourism was a positive influence & 8 thought it was negative thought it was positive	andrids [1]
53 thought tourism was a positive influence & 8 thought it was negative thought it was positive	Shigs [1]
53 thought tourism was a positive influence & 8 thought it was negative thought it was positive	[1]
53 thought tourism was a positive influence & 8 thought it was negative thought it was positive	[1]
53 thought tourism was a positive influence & 8 thought it was negative thought it was positive	
thought it was positive	
v 1	/ 53/61
	it was
negative / 7 times as many thought it was positive than negative	it was
Main positive impact of tourism is jobs and income	
27 out of 61 gave it as first choice	[4]
(iv) Local people can see more taxis / tuk-tuks	
Most affected by these / affected daily	
Traffic congestion slows them down travelling / stops them getting to work or Air pollution makes it difficult to breath	n time
Air pollution 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?	
Is your journey to work/school delayed?	[3]
is your journey to wond school delayed:	[0]
	[Total: 30]