www.PapaCambridge.com

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

2217 GEOGRAPHY

2217/22

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 2012 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	.0	Y
	GCE O LEVEL – May/June 2012	2217	100	

Section A

	occiton A	16.
(a) (i)	4686	Bridge
(ii)	471886	[1]
(iii)	69km	[1]
(b) (i)	Narrow tarred Reservoir Dam Spot height Hut	[5]
(ii)	Orchard/plantation	[1]
(iii)	All areas indicated = 2 marks One area indicated = 1 mark	[2]
(c) (i)	1800 –2000	[1]
(ii)	Difference in height of 21.7 Gradient of 1 in 82 to 1 in 93	[2]
(iii)	NW	[1]
(d) (i)	Sketch completion of section to show dip for river valley	[1]
(ii)	Location of river between 46mm and 50mm from left axis	[1]
(e) Wide Oth Oth Oth Gri Hig	[3]	
		[20]
(a) (i)	Correct line	[1]
(ii)	Correct shading	[1]
(b) (i)	9	[1]
	50km	[1]
` '		

	Page 3		Mark Scheme: Teachers' version	Syllabus
			GCE O LEVEL – May/June 2012	2217
	(c) (i)	Sligh	nt to moderate	ambr
	(ii)		orly built damage indicates a lower level ell built damage indicates a higher level	Syllabus 2217 PARCAMBATAGA
	(iii)		ective d an average opinion out if everyone felt it	[2]
			·	[8]
3	(a) (i)	Lowe	ered	[1]
	(ii)	1903	3–1904	[1]
	(iii)	7 <u>me</u>	<u>etres</u>	[1]
	(b) Co	orrect p	positions on diagram	[2]
	Co Ur Co Re	oncento ndercu ollapse etreat/r	hydraulic action/abrasion rated at notch/notch grows in size/cave formed tting e/slumping nearer to village d action	[3]
				[8]
4	(a) (i)	Corr	ect completion of graph.	[2]
	(ii)	1920)	[1]
	(iii)	Incre	rease 1910 to 1920 ease 1920 to 1930/1940 to 1970/overall els out/small increase 1930 to 1940	[3]
	(b) (i)	Com	pletion of graph	[1]
	(ii)	5–9	age group is smaller than 5–9/10–14 age group is smaller than 10–14	
		Base	e of pyramid is getting narrower	[1]
				[8]
5	(a) (i)	Keny	ya	[1]
	(ii)	Trini	dad and Tobago	[1]
	(iii)	260	kg (per hectare)	[1]

	Page 4		ļ	Mark Scheme: Teachers' version Syllabus	7. D	
				GCE O LEVEL – May/June 2012 2217	Star	
		(iv)	Japa	nd and New Zealand in and Denmark Germany, USA (any two)	A. PapaCar	Bridge
	(b)	Neg Lov Hig Hig Pai	gative v perd h perd h ferti red da	ationship relationship cent in agriculture has low, medium and high fertilizer use cent in agriculture has low or medium fertilizer use ilizer use has a low percentage in agriculture ata: 2 marks 1 for data		•
		Res	serve	i ioi data		[4]
						[8]
6	(a)	Roo Bay Hea Tre Lov	/ adland	d stline		[3]
	(b)	(i)	Cum	ulus		[1]
		(ii)	3			[1]
	(c)	(i)	Świn	asure) boats nmers es/(boat) moorings		[2]
		(ii)	Facto	ory/chimney		[1]
		(,		- , ,		
				Section B		[8]
7	(a)	(i)	Only No re Ansv Que	mples: Credit ONLY weaknesses of the 4 questions. contains closed question/yes-no answers (1) easons/opinions are asked for (1) wers are too obvious (1) stion 1/global warming question irrelevant (1) stions general/vague (1)	[1 + 1]	[2]
		(ii)	Give Inclu Intro Reas	d three different examples; can be opposites of (i) es a scale/range/options/multiple choice/quantitative answers (1) ides gender/age group (1) duction to the questionnaire (1) sons/opinions are asked for (1) e more user-friendly/tick boxes/circling is easier/circling is quicked		[3]

Page 5	Mark Scheme: Teachers' version	Syllabus	2
	GCE O LEVEL – May/June 2012	2217	100

(iii) Can be any one of stratified, systematic or random. Need to name (1) described (1 mark) and give one reason (1 mark) why they chose the method.

Stratified sampling (1)

Samples an appropriate gender balance (1)

Samples an appropriate age balance (1)

Avoids bias (1)

Creates a mix of age/gender -variety/representative (1)

Systematic sampling (1)

Asking at regular intervals e.g. every tenth person (1)

Easy to organise/collect data (1)

Fast to collect samples (1)

Avoids bias (1)

Random sampling (1)

Generates formal sample by random numbers (1)

Can generate sample by informal random choices e.g. 3rd then 7th person (1)

Avoids bias by using random system to choose people (1)

OR

Generates informal sample (1)

Ask anybody with no real criteria e.g. best friend (1)

Convenient/quick (1)

[1 + 1 + 1] **[3]**

(b) (i) Wind turbines only work when it is very windy

[1]

(ii) Graph completion. 1 mark for each correct plot; ignore any shading. Wind power doesn't pollute the atmosphere = 46
Wind is free = 19

[1 + 1] **[2]**

(iii) Yes/agree with hypothesis/TRUE.

Comparable data such as yes = 72/no = 28;

72% or 72/100 agree with it (1)

[1HA + 1] **[2]**

(iv) Reasons such as:

There are no waste materials (1)

Land beneath/around the turbines can still be used for farming (1)

Wind turbines can be a local scheme (1)

Can be in a remote area/hilly/off shore (1)

Cheap running costs/low maintenance (1)

Noise is relatively low (1)

No need to mine coal/gas/oil/fossil fuels (1)

No need for expensive nuclear stations (1)

(c) (i) Completion of divided bar:

Two dividing lines at 30 and 82 (1 + 1)

Correct shading of all 3 sectors = 1

[(1+1)+1] [3]

			•
Page 6	Mark Scheme: Teachers' version	Syllabus Vr	
	GCE O LEVEL – May/June 2012	2217	

(ii) Wind turbines will create few jobs in the area.
Allow 'last one/bottom one/statement number 5'

(iii) For the hypothesis: (1 Reserve)

60%/most agree that it will spoil the view (1)

90%/almost all agree that they create a lot of noise (1)

52%/majority agree that will create few jobs in the area (1)

Against the hypothesis: (1 Reserve)

70%/most disagree that tourists will stop visiting the area (1)

84%/almost all disagree that turbines will be a danger to walkers (1)

Evidence can be data or judgement (made by looking at data).

EXCEPTION: If candidates focus on the "hilltop" in the hypothesis they can really only say

Hypothesis is TRUE because 60% agree it will spoil the view (1)

Allow max. of $\frac{1}{2}$ marks for this response (1HA + 1 max = 2).

[1HA + 1R + 1R + 2] **[5]**

(d) (i) Examples each worth 1 mark each.

HEP/Hydro/Water turbines

Tidal

Solar

Geothermal

Biogas

Wave

[1 + 1] [2]

(ii) Four processes at 1 mark each

Sun's energy/short-wave radiation passes through the earth's atmosphere (1)

Some energy absorbed by the earth's surface (1)

Earth's surface heats up (1)

Long-wave radiation radiated back towards space (1)

Greenhouse gases form blanket/absorb/trap outgoing radiation/prevent escape (1)

Radiation reflected back towards earth's surface (1)

Atmosphere heats up (1)

[1 + 1 + 1 + 1] **[4]**