

Wany, Papa Cambridge, com MARK SCHEME for the May/June 2012 guestion paper

for the guidance of teachers

0460 GEOGRAPHY

0460/41

Paper 4 (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.

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			Syllabus	S. Y
	IGCSE – May/June 201	12	0460	Day
(a) (i)	Hold the tape measure/it at the other end Measure from tape/transect line to groun Record results/read results off ruler/read Measure 50 cm interval across tape	nd		w trapape
(ii)	Diagram includes: Frame of quadrat Internal squares of quadrat 5 × 5, 6 × 6, 7 75/25 split Labels include: Quadrat/frame Internal squares Vegetation (75%) and bare soil (25%) 1 mark max for labelling Need square outline to consider answer		al number)	[4]
			IGIO/SKEION/	נדן
(b) (i)	Cross-section completion – plots and line 2.5 m = 36 cm 3 m = 30 cm 1 mark for both plots, 1 mark for line	Э		[2]
(ii)	Grassland cross-section Wider/greater distance across footpath Gentler slopes/sides Less deep	Woodland cross Narrower/less d Steeper slopes/ Deeper	distance across	footpath
	Need comparison			
	Accept paired figures if used in comparis 8 m wide Woodland = 36 cm deep and grassland =		-	ind grassland =
	NOT: Lower More constant slope in grassland			
	3 @ 1			[3]
(iii)	Hypothesis is correct/agree/footpath ero reserve If say disagree = 0	osion does incre	ase towards ce	entre – 1 mark
	Path/paths is deep in centre/2.5 m in woo	odland path/4 m i	n grassland patl	h
	Accept figures such as Woodland path in centre/2.5 m across = Grassland path in centre/4 m across= 14			[2]
(c) (i)	Kite diagram completion – 2 marks for pl 7.5 m = 90% 8 m = 96%	ots, 1 mark for co	orrect shading	[3]

Page 3	5	Mark Scheme: Teachers' version	Syllabus	K
		IGCSE – May/June 2012	0460 23	
(ii)	Must Woo	it paired figures of centre and edge of paths (up to specify which path dland: centre/2.5 m = 0%, edge/0 m/5 m = 82/80%/ sland: centre/4 m = 40%, edge/0/8 m = 93/96 %/mo	/around 80%	Inprise
	2.00	1		۲۲.
(iii)		sland path is on gentle slope/woodland path is on s asy to walk on/ so hard footsteps/lots of force (1)	steep slope (1)	
	So \ vege So l	sland path is wide/Woodland path is narrow (1) walkers will spread out more OR more even o tation (1) ess opportunity for walkers to spread out OR r entrated trampling of vegetation (1)		U
		point attracts more walkers/bridge or river attracts hore people on woodland path/so less people on gra		
		t specify which path is being described ouble credit for opposites		
	Root Diffe	: s protects soil more than woodland s hold soil together rence in soil moisture s are different lengths		[4]
Kno Mea Pou Sto To	ocked/ asured ured ir pwato measu	e/pipe/tube /pushed into ground d amount of water/equal amount of water hto tube h/timer ure time for water to soak into ground nd calculate average		
1 m	ark m	ax for equipment (pipe/stopwatch)		
Pip Har	ter po e put mmer	ured onto ground on ground nto container		[3

Pa	ge 4		Syllabus Syllabus	_
		IGCSE – May/June 2012	0460 230	
(e)	Crea Res Alte Imp Re- Prol 'kee Sma	eas such as: eate permanent path/tarmac path/rocks in path/bricks/tile store eroded footpaths/fill in hole ernative/signposted paths/more paths prove drainage -seeding around footpath/more grass around path phibit use/allow treated paths time to recover/restrict acc ep off' signs nall/low bridges/boardwalks/walkways ucation about/raise awareness of footpath erosion		brie
	Mor Plar Nett Zip Lev Fen	DT: den footpath are vegetation around path ant trees for roots to stabilise soil tting line vel off ground nce off sides of path n't walk on same path		[4
			[Total: 30 ma	rks
(a)	(i)	Stratified sampling/reflect population Appropriate gender balance/age balance/avoid bias/m	ix of age/gender	
		Systematic sampling/e.g. asking every tenth person Quick/avoids bias		
		Random sampling/e.g. ask the next person they meet/ No selection criteria/quick/random numbers avoids bia		
		Credit 1 mark for named sampling method or description	on	[2
	(ii)	15 -30 ✓ and 31- 60 ✓ BUT: 15 – 40 ✓ and 40 – 60 × 16 – 20 × and 40 – 60 × Accept reasonable age ranges		
		2 @ 1		[2
	(iii)	All ticks in correct boxes on Fig. 4 Top Top Middle		
		2		[^

Page 5	Mark Schem	e: Teachers' version	Syllabus	· A
Ŭ		– May/June 2012	0460	AD2
(iv)	River/stream/lake Water tank/ collect rainwa Road tanker/water truck Well/pump Bottled water	ater		www.xtrapape
	NOT: From sea Buy water from shop Recycled water Fountain			
	2 @ 1			[2]
(v)	May be obtaining electric Shame of not having elec	ity supply illegally/may be repo ctricity/not want to admit	orted	
	NOT: Don't know where electric	city comes from		[1]
b) (i)	Divided bar graph comple 1 mark for correct shading If not drawn in correct orc If lines at 10, 18 and 72 g	ler go to 2 marks max	t 18 and 90	[3]
(ii)	Bar graph completion 8 No mark for shading	80% city authority & 18% cabl	е	
	2 @ 1			[2]
(iii)	Yes/results support hyp settlement A – 1 mark res If say No = 0	othesis/hypothesis is correc serve	t/services are be	etter in squatter
	•		% in A and 5% in E	3
		OR have own toilet/51% in A a oilet/49% in A and 100% in B	and 0% in B	
	Less have to obtain elect	y supply/from city authority/80 ricity supply illegally/attaching upply/2% in A and 36% in B		
	Accont oppositos in sottle	ment B but no double credit		[4]

Accept opposites in settlement B, but no double credit.

[4]

Page 6	Mark Scheme: Teachers' version	Syllabus	V.
	IGCSE – May/June 2012	0460	
c) (i)	Pie graph completion – 1 mark for division, 1 mark for s 1 room = 64% 2 rooms = 30%	Syllabus 0460 shading	ambrio
	NOT: 2 rooms first, but still credit shading if it matches correc	t percentage figures	[2]
(ii)	1 Larger		
	2@1		[2]
(iii)	Completion of pie graph key – shading 4 categories All pairs correct = 2 marks, 2 or 3 correct = 1 mark, 1 co Shading is same order as settlement A in Fig. 8 1 person 2 people 3 people 4 or more people	orrect = 0 marks	
	1 mark max if don't include 'people' 1 mark max if order of key is incorrect		[2]
(iv)	In settlement B There are more/larger % of homes with 4 or more peop There are less/smaller % of homes with 1/2/3 people Can score both marks for statements Accept opposites in settlement A, but no double credit.	le	
	4 or more: 86% in B and 62% in A 3: 10% in B and 20% in A 2: 3% in B and 12% in A 1: 1% in B and 6% in A		
	Need both figures for credit Can score both marks for paired stats		
	Allow 1 mark for similarity between settlements, such four or more people living in them	n as majority/60% of home	s have
	NOT: More in homes in settlement B Crowded		[2]
(v)	No/results do not support hypothesis/hypothesis is inco reserve If say Yes = 0	orrect/less crowded in A –	1 mark
	There are more rooms per house in A and less people There are fewer rooms per house in B and more peop Allow cross-reference between these two lines	•	
	No credit for % figures without interpretation e.g. only		[2

Page 7	Mark Scheme: Teachers' version	Syllabus
	IGCSE – May/June 2012	0460
Hassle People to give of Getting Not find Languag	f students/mugging/theft/crime/dangerous place being reluctant to answer questions/won't answer tru orrect answer ost/difficult to get to/poor transport links ng enough people to make the survey accurate le difficulties for people to understand the survey water/air/rubbish/unhygienic conditions/student illne eets make it difficult to interview people	

3@1

[3]

[Total: 30 marks]