UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0460 GEOGRAPHY

0460/43

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.

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

CIE is publishing the mark schemes for the October/November 2010 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	Paper
			IGCSE – October/November 2010 0460		43	
1	(a)	(a) Labelle		arrows on sketch – 1 mark per correct label		[2]
	(b)	(i)	С			[1]
		(ii)	Estir	npling points are regularly spaced out / constant acr mate / measure width of transect and estimate / ry 10 metres (or appropriate measurement)		divisions / [2]
	((iii)		e measure: lay it out along transect line k out distance between ranging poles		
			Ensi	ging poles: students hold poles at either end of mea ure they are vertical t rest on surface, not dug into surface	asured distance	
			Sigh Allov	ometer: student holds clinometer next to top / at ag nt other ranging pole at top / agreed height w clinometer to adjust to angle d angle off clinometer	reed height on ran	iging pole
			Res	erve 1 mark for each piece of equipment		[6]
	(c)	(i)		elling transect: embryo dune, slack, main ridge dun prrect = 2 marks, 1 or 2 correct = 1 mark	e	[2]
		(ii)	text	erally hypothesis is true / not perfect match / not book profiles match – ✓Ha 1 mark Ha mark for NOT true but credit differences	t entirely true / st	udent and
			The	ilarities: Can identify the four dune features on stud student profile features are in the same order as th extbook slacks are similar depths, same in student p	e textbook	
			In te Long dune Flat	erences: In textbook main ridge has two peaks, only extbook there is an old dune ridge, none in student p ger distance between fore dune and slack / slack ne e in student profile land between fore dune and main dune / between not in textbook	profile earer to main dune	e than fore
			2 ma	arks maximum for similarities or differences		[4]

Page 3		Mark Scheme: Teachers' version	Syllabus	Paper		
		IGCSE – October/November 2010	0460	43		
(d) (i)	 d) (i) Put quadrat on ground Estimate percentage of quadrat / count number of squares which include vegetation cover Do task at each sampling point 					
(ii)	Sha	npletion of bar graph – points 15 at 25% and 16 at 9 ding not needed 1 mark	0%	[;		
(iii)	vege Whe picni Whe Crec cycli	othesis is true / partly true / human activity d etation cover – \checkmark Ha 1 mark ere there is evidence of more intensive human ac ic site, there is less vegetation cover ere there has been a fire there is no vegetation cove dit data as appropriate e.g. footpath / walking ther ing = 10% vegetation cover, no human activity = er – to 3 marks maximum	tivity, e.g. path, c er e is 50% vegetat	cycle path, tion cover,		
boa bar Rec Map Dra Tak Cou Loo	ard, di rier to cord / p evic aw fiel ke pho unt ev ok at p	/ identify / find out about / observe evidence (or e.g irection sign, boardwalk, ropeway fenced off area, o prevent vehicle access, consolidation barrier to pre- make notes of evidence or examples dence or examples ld sketch of evidence or examples otographs / video of evidence or examples vidence or examples comphlets / leaflets / information maps / internet to f ask people in charge / park rangers about manager	replanting of marr event dune mover ind evidence or e	ram grass, nent)		

[Total: 30]

	Page 4		Mark Scheme: Teachers' version	Syllabus	Paper	
	•		IGCSE – October/November 2010	0460	43	
2			rry data: collected by students through fieldwork ndary data: acquired from other sources / books / internet			[2]
(b) (i) Fieldwork: mark use of / label each building on base Decide whether to do ground floor only or include up Alternative is to take transects along several routes				•		
		Clas Sha	chool: decide land use categories ssify buildings into categories / colour code de map and key / plot land uses on map ark reserve for each section.			[4]
	(ii)	Stre Time Tally	ording sheet to include: et name / location / sample point / site e of survey y of pedestrians / space to do tally al number / result of tally			[3]
	(iii)	diffe	nber of pedestrians varies during the day / differer erent times of day tors such as shop opening hours / people going to aks		unch time	[1]
	(iv)	All c All c Use	dents went to identify survey points / different places conducted count at same time conducted survey for 5 minutes of watches / stopwatch / mobile phone to ensure co o (or other number) students in each group			[2]
	(c) (i)		npletion of isoline on Fig. 7 It go outside 21, through 20 and outside 28			[1]
	(ii)	Sha	ding on Fig. 7			[1]
	(iii)	One Park Cycl No h Acce idea Tida	lanes e way streets king restrictions / yellow lines / tow-away zones / no leways neavy vehicle access ess for delivery vehicle / authorised vehicle / taxi / a) al flow scheme nber plate permits		g bollards	
	(iv)	3 @ Very Diffie heig Sece	y time consuming activity / too many buildings in CB cult to estimate building heights (or number of hts ondary data will be more accurate than estimate	storeys) / cannot	measure	[3]
		Data	a is already available / easier to get / not necessary	to map data		[2]

 (ii) Hypothesis 1 is true / different techniques do produce different results - √Ha 1 mark NOT partly true Compare any two land use areas for 2nd mark e.g. land use produces bigger CBD area than pedestrian flow (iii) Shading on Fig. 8 (iv) Hypothesis 2 is incorrect / building height is not an accurate criteria √Ha 1 mark DO NOT accept true (0 marks) Covers an area which is larger than core CBD Pedestrian flow measurement is more accurate Could argue that it is just one measurement and is an accurate as any other / are other measurements to consider Need a combination of measurements to map a core area (e) Redevelopment of old buildings / regeneration Demolition of old buildings Clearance of unofficial / illegal buildings Construction of new shopping centre Construction of new stopping centre Construction of new stotion / train station / metro / tram system CBD will expand / shrink / change shape / change location / doughnut Building height will increase / more high rise buildings No vehicle / pedestrian zone will be enlarged / any change in traffic restriction Change in land use of building or example / business moves out 3 @ 1 	Page 5		Mark Scheme: Teachers' version	Syllabus	Paper	
 Offices Entertainment Public buildings / town hall Cafes / restaurants Historic buildings / castle / cathedral Hotels Bus / train station Banks Multi-storey car parks 3 @ 1 (ii) Hypothesis 1 is true / different techniques do produce different results –			IGCSE – October/November 2010	0460	43	
 YHa 1 mark NOT partly true Compare any two land use areas for 2nd mark e.g. land use produces bigger CBD area than pedestrian flow (iii) Shading on Fig. 8 (iv) Hypothesis 2 is incorrect / building height is not an accurate criteria	(d) (i)	Offic Ente Pub Cafe Histe Hote Bus Ban Mult	ces ertainment lic buildings / town hall es / restaurants oric buildings / castle / cathedral els / train station ks i-storey car parks		[3	
 (iv) Hypothesis 2 is incorrect / building height is not an accurate criteria	(ii)	√Ha Con	a 1 mark NOT partly true npare any two land use areas for 2nd mark e.g. land		igger CBD [2	
 YHa 1 mark DO NOT accept true (0 marks) Covers an area which is larger than core CBD Pedestrian flow measurement is more accurate Could argue that it is just one measurement and is an accurate as any other / are other measurements to consider Need a combination of measurements to map a core area (e) Redevelopment of old buildings / regeneration Demolition of old buildings Clearance of unofficial / illegal buildings Construction of new shopping centre Construction of new office blocks Development of new bus station / train station / metro / tram system CBD will expand / shrink / change shape / change location / doughnut Building height will increase / more high rise buildings No vehicle / pedestrian zone will be enlarged / any change in traffic restriction Change in land use of building or example / business moves out 3 @ 1 	(iii)	Sha	ding on Fig. 8		[1	
Demolition of old buildings Clearance of unofficial / illegal buildings Construction of new shopping centre Construction of new office blocks Development of new bus station / train station / metro / tram system CBD will expand / shrink / change shape / change location / doughnut Building height will increase / more high rise buildings No vehicle / pedestrian zone will be enlarged / any change in traffic restriction Change in land use of building or example / business moves out 3 @ 1	(iv)	 ✓ Ha Cov Ped Cou othe 	a 1 mark DO NOT accept true (0 marks) ers an area which is larger than core CBD estrian flow measurement is more accurate Id argue that it is just one measurement and is an er measurements to consider	accurate as any o	other / are [2	
	Der Cle Cor Cor Cov CB Bui No Cha	molitio aranc nstruc velopi D will Iding vehic ange	on of old buildings ce of unofficial / illegal buildings ction of new shopping centre ction of new office blocks ment of new bus station / train station / metro / tram expand / shrink / change shape / change location / height will increase / more high rise buildings cle / pedestrian zone will be enlarged / any change in	doughnut n traffic restriction	[3	
					[Total: 30	