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	2	Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – October/November 2010	0460	43	
1	(a) Lat	belled	arrows on sketch – 1 mark per correct label			[2]
	(b) (i)	С				[1]
	(ii)	Estir	pling points are regularly spaced out / constant acromate / measure width of transect and estimate / y 10 metres (or appropriate measurement)		divisions /	[2]
	(iii)		e measure: lay it out along transect line < 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	sured distance		
		Sigh Allov	ometer: student holds clinometer next to top / at agre t other ranging pole at top / agreed height w clinometer to adjust to angle d angle off clinometer	eed height on ran	ging pole	
		Rese	erve 1 mark for each piece of equipment			[6]
	(c) (i)	 Labelling transect: embryo dune, slack, main ridge dune 3 correct = 2 marks, 1 or 2 correct = 1 mark 				
	(ii)	textb	erally hypothesis is true / not perfect match / not book profiles match – ✓Ha 1 mark Ha mark for NOT true but credit differences	entirely true / st	udent and	
		The	larities: Can identify the four dune features on stude student profile features are in the same order as the xtbook slacks are similar depths, same in student p	e textbook		
		In te Long dune Flat	erences: In textbook main ridge has two peaks, only xtbook 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	rofile arer to main dune	e than fore	
2 marks maximum for similarities or differences						[4]

Page 3	6	Mark Scheme: Teachers' version	Syllabus	Paper
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(d) (i)	Estir vege	quadrat on ground nate percentage of quadrat / count number etation cover ask at each sampling point	of squares whic	h include [3]
(ii)	Sha	pletion of bar graph – points 15 at 25% and 16 at 9 ding not needed 1 mark	0%	[2]
(iii)	vege Whe picn 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 cover dit data as appropriate e.g. footpath / walking ther ng = 10% vegetation cover, no human activity = er – to 3 marks maximum	tivity, e.g. path, c er e is 50% vegetat	ycle path, ion cover,
boa barı Rec Maş Dra Tak Cou Loo	ard, di rier to cord / p evic w fiel ke pho unt ev ok at p	/ identify / find out about / observe evidence (or e.g rection sign, boardwalk, ropeway fenced off area, o prevent vehicle access, consolidation barrier to pre make notes of evidence or examples lence or examples d sketch of evidence or examples otographs / video of evidence or examples vidence or examples bamphlets / leaflets / information maps / internet to f ask people in charge / park rangers about manage	replanting of marr event dune mover ind evidence or e	am grass, nent)

[Total: 30]

		narv (IGCSE – October/November 2010	0460	43	1	
		any (45		
	200	(a) Primary data: collected by students through fieldwork Secondary data: acquired from other sources / books / internet					
(b)		Deci					
		Clas Shao	sify buildings into categories / colour code de map and key / plot land uses on map		[[4]	
(Stree Time Tally	et name / location / sample point / site e of survey of pedestrians / space to do tally		[[3]	
(i	-	Number of pedestrians varies during the day / different number of pedestrians at different times of day Factors such as shop opening hours / people going to and from work / lunch time breaks					
(i	-	All co All co Use	onducted count at same time onducted survey for 5 minutes of watches / stopwatch / mobile phone to ensure co		[[2]	
(c)					[[1]	
((ii)	Shad	ding on Fig. 7		[[1]	
(i		One Park Cycl No h Acce idea Tida	way streets ing restrictions / yellow lines / tow-away zones / no eways eavy vehicle access ess for delivery vehicle / authorised vehicle / taxi /) I flow scheme		g bollards		
					[[3]	
(i	-	Diffic heig Seco	cult to estimate building heights (or number of s hts ondary data will be more accurate than estimate	storeys) / cannot		[2]	
	(((((((((ii) (iii) (iv) (c) (i) (ii) (iii)	 (ii) Deci Alter Alter In so Class Shad 1 ma (ii) Reco Stree Time Tally Tota (iii) Num differ Facto brea (iv) Stud All co Use Two (iv) Stud All co Use Two (ii) Shad (iii) Bus One Park Cycle No h Acce idea Tida (iv) Very Diffici heigi Seco 	 Decide whether to do ground floor only or include upper Alternative is to take transects along several routes In school: decide land use categories Classify buildings into categories / colour code Shade map and key / plot land uses on map 1 mark reserve for each section. (ii) Recording sheet to include: Street name / location / sample point / site Time of survey Tally of pedestrians / space to do tally Total number / result of tally (iii) Number of pedestrians varies during the day / different different times of day Factors such as shop opening hours / people going to breaks (iv) Students went to identify survey points / different places All conducted count at same time All conducted survey for 5 minutes Use of watches / stopwatch / mobile phone to ensure co Two (or other number) students in each group (c) (i) Completion of isoline on Fig. 7 Must go outside 21, through 20 and outside 28 (ii) Shading on Fig. 7 (iii) Bus lanes One way streets Parking restrictions / yellow lines / tow-away zones / no Cycleways No heavy vehicle access Access for delivery vehicle / authorised vehicle / taxi / idea) Tidal flow scheme Number plate permits 3 @ 1 (iv) Very time consuming activity / too many buildings in CB Difficult to estimate building heights (or number of sheights Secondary data will be more accurate than estimate 	 Decide whether to do ground floor only or include upper floors Alternative is to take transects along several routes In school: decide land use categories / colour code Shade map and key / plot land uses on map 1 mark reserve for each section. (ii) Recording sheet to include: Street name / location / sample point / site Time of survey Tally of pedestrians / space to do tally Total number / result of tally (iii) Number of pedestrians varies during the day / different number of pede different times of day Factors such as shop opening hours / people going to and from work / lu breaks (iv) Students went to identify survey points / different places All conducted survey for 5 minutes Use of watches / stopwatch / mobile phone to ensure comparability Two (or other number) students in each group (c) (i) Completion of isoline on Fig. 7 Must go outside 21, through 20 and outside 28 (ii) Shading on Fig. 7 (iii) Bus lanes One way streets Parking restrictions / yellow lines / tow-away zones / no parking Cycleways No heavy vehicle access Access for delivery vehicle / authorised vehicle / taxi / buses only (rising idea) Tidal flow scheme Number plate permits 3 @ 1 (iv) Very time consuming activity / too many buildings in CBD Difficult to estimate building heights (or number of storeys) / cannot heights 	 Decide whether to do ground floor only or include upper floors Alternative is to take transects along several routes In school: decide land use categories colour code Shade map and key / plot land uses on map 1 mark reserve for each section. (ii) Recording sheet to include: Street name / location / sample point / site Time of survey Tally of pedestrians / space to do tally Total number / result of tally (iii) Number of pedestrians varies during the day / different number of pedestrians at different times of day Factors such as shop opening hours / people going to and from work / lunch time breaks (iv) Students went to identify survey points / different places All conducted count at same time All conducted count at same time All conducted survey for 5 minutes Use of watches / stopwatch / mobile phone to ensure comparability Two (or other number) students in each group (c) (i) Completion of isoline on Fig. 7 Must go outside 21, through 20 and outside 28 (ii) Shading on Fig. 7 (iii) Bus lanes One way streets Parking restrictions / yellow lines / tow-away zones / no parking Cycleways No heavy vehicle access Access for delivery vehicle / authorised vehicle / taxi / buses only (rising bollards idea) Tidal flow scheme Number plate permits 3 @ 1 (iv) Very time consuming activity / too many buildings in CBD Difficult to estimate building heights (or number of storeys) / cannot measure heights Secondary data will be more accurate than estimate 	

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(d) (i) Shops Offices Entertainment Public buildings / town hall Cafes / restaurants Historic buildings / castle / cathedral Hotels Bus / train station Banks Multi-storey car parks [3] 3@1 (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 [2] (iii) Shading on Fig. 8 [1] (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 [2] (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

[3]

[Total: 30]