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.

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Page 2	2	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2010	0460	43
(a) Lat	belled	arrows on sketch – 1 mark per correct label		I
(b) (i)	С			[
(ii)	Estir	npling points are regularly spaced out / constant a mate / measure width of transect and estimate ry 10 metres (or appropriate measurement)		divisions / [
(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 m ure they are vertical t rest on surface, not dug into surface	easured distance	
	Sigh Allov	ometer: student holds clinometer next to top / at a it other ranging pole at top / agreed height w clinometer to adjust to angle d angle off clinometer	igreed height on ran	nging pole
	Res	erve 1 mark for each piece of equipment		[
(c) (i)		elling transect: embryo dune, slack, main ridge du rrect = 2 marks, 1 or 2 correct = 1 mark	ine	[
(ii)	text	erally hypothesis is true / not perfect match / n book profiles match – ✓Ha 1 mark Ha mark for NOT true but credit differences	ot entirely true / st	udent and
	The	ilarities: Can identify the four dune features on stust student profile features are in the same order as extbook slacks are similar depths, same in student	the textbook	
	In te Long dune Flat	erences: In textbook main ridge has two peaks, or extbook there is an old dune ridge, none in studen ger distance between fore dune and slack / slack e in student profile land between fore dune and main dune / betwee not in textbook	t profile nearer to main dune	e than fore

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Page 3	3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2010	0460	43
(d) (i)	Estir vege	quadrat on ground mate percentage of quadrat / count number etation cover ask at each sampling point	of squares whic	ch include [3]
(ii)	Shad	npletion of bar graph – points 15 at 25% and 16 at 9 ding not needed 1 mark	0%	[2]
(iii)	vege Whe picni Whe Crec cycli	othesis is true / partly true / human activity d etation cover – \checkmark Ha 1 mark are there is evidence of more intensive human ac ic site, there is less vegetation cover are there has been a fire there is no vegetation cover dit data as appropriate e.g. footpath / walking there ing = 10% vegetation cover, no human activity = ar – to 3 marks maximum	tivity, e.g. path, c r e is 50% vegetat	cycle path, tion cover,
 (e) Look for / identify / find out about / observe evidence (or e.g. of evidence such as notice board, direction sign, boardwalk, ropeway fenced off area, replanting of marram grass, barrier to prevent vehicle access, consolidation barrier to prevent dune movement) Record / make notes of evidence or examples Map evidence or examples Draw field sketch of evidence or examples Take photographs / video of evidence or examples Count evidence or examples Look at pamphlets / leaflets / information maps / internet to find evidence or examples Survey / ask people in charge / park rangers about management 				ram grass, ment)

[Total: 30]

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	Page 4	1	Mark Scheme: Teachers' version	www.dynamicpap	Paper
	Fage	+	IGCSE – October/November 2010	0460	43
2	• •	-	data: collected by students through fieldwork ary data: acquired from other sources / books / i	nternet	[2]
	(b) (i)	Dec	dwork: mark use of / label each building on base ide whether to do ground floor only or include u rnative is to take transects along several routes	pper floors	
		Clas Sha	chool: decide land use categories sify 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 / of pedestrians / space to do tally Il number / result of tally		[3]
	(iii)	diffe	nber of pedestrians varies during the day / diff rent times of day tors such as shop opening hours / people goin iks		
	(iv)	All c All c Use	lents went to identify survey points / different pla onducted count at same time onducted survey for 5 minutes of watches / stopwatch / mobile phone to ensur (or other number) students in each group		[2]
	(c) (i)		pletion of isoline on Fig. 7 t 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 Num	Í flow scheme hber plate permits		
	(iv)	Diffi heig Sec	/ time consuming activity / too many buildings ir cult to estimate building heights (or number	of storeys) / cannot e	[3] measure [2]

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Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
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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

Change in land use of building or example / business moves out

No vehicle / pedestrian zone will be enlarged / any change in traffic restriction

[3]

[Total: 30]

Building height will increase / more high rise buildings

3@1

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