CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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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.

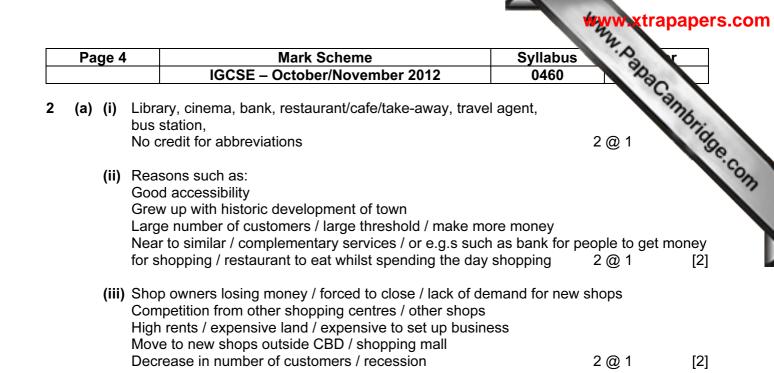
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

				1	www.xtra	apape
Paç	ge 2	2	Mark Scheme	Syllabus	N.D	r
			IGCSE – October/November 2012	0460	Do 1	
	Che Wo sup Let We rep Loc	eck cu rk in p pervisi peop ar wa ellent ok out	le know where you are going / take mobile phon terproof clothing / wellingtons / protective clothin for dangerous animals / thorny vegetation / mos	squitoes	lock / insect	
			o fieldwork if river is polluted / Weil's disease / w	ater bottle / do no	ot drink river	[.] water
			laylight / not in dark of slippery rocks / sharp stones		3@1	[3
(11)	٨ ط	Take Reco 1 ma & str		le / ruler / measu	ring pole / pe	ebble [5
	Dis		ge: accuracy of reading / digital reading / quicker ntage: less accurate in low velocity / battery may vater		ve / cannot ι 2 @ 1	use in [2
	Put Tim finis Rep	float ne hov shes peat te	length or specific length along river in river v long it takes float to travel the distance / use st est t different points across river	opwatch to time	when it start	s and
. ,	Dis Allc =0.	tance ow tim 45 m	length of time = 110 / 5 = 22 (secs) (29 + 30 + 1 / time = 10(m) / 22 (secs) e figure calculated above if not 22 (secs) / sec (must be 2dp) need units for carry forward of error in time figure	8 + 25 + 18)		[3

age 3 Mark Scheme Syllabus	N S
IGCSE – October/November 2012 0460	No.
(i) Plot 0.6m deep at 2.0m & complete cross-section line Shade river channel	(1 + 1) 2 @ 1
(ii) Complete bar graphs – 0.7 in middle, 0.77 on outside	2@1
(i) On straight section average velocity in middle is 0.53 m/sec, compare with either 0.36 & 0.4 at sides or highest / biggest / fastest at 0.53 m/s Need the highest statistic On meander average velocity is 0.77 m/sec on outside bend, compare with either 0.7 & 0.66 in middle and inside bend or biggest / fastest at Do not need units	d sec ed
No Hypothesis mark	2@1 [2]
(ii) Deeper water in middle of straight cross-section and on outside bend Stronger current / greater velocity where river is deeper Because less friction with bed and banks / hitting the sides	of meander 2 @ 1 [2]
 (iii) Results of boys' fieldwork do not support either hypothesis / girls' conresults are opposite – 1 mark reserve If answer is Hypothesis / girls' conclusion is supported = 0 On straight section velocity is greater on left side / 0.77 left & 0.71 mid On meander velocity is greater on the inside bend (left) / 0.51 inside & Boys' results show little variation in velocity across river Must make reference to straight & meander 	ddle
 Repeat experiment on different days / month / season to compare results Do experiments at more sites along river Investigate another river Use flowmeter Another student checks to make sure measurements are accurate Ensure that don'th measurement is to the had not an isolated rock on had 	3@1 [3]
Ensure that depth measurement is to the bed not an isolated rock on bed	3@1 [



(b) (i)

	Retail park
Shops selling comparison / high order goods	10
Shops selling convenience / low order goods	1
Services	3
Vacant / unoccupied	0
Total	14

4 correct = 2 marks; 2 or 3 correct = 1 mark

- (ii) Comparison / high order goods usually cost more than convenience / low order goods
 People travel further to buy comparison / high order goods than convenience / low order goods
 2 @ 1 [2]
- [2]

Page	5	Mark Scheme	Syllabus	. S. 1	
		IGCSE – October/November 2012	0460	Pac	
(ii	jew spc Lov	h order: clothes, department store, electrical goods, fi ellery, motoring goods, music/games/films, mobile ph orts, toys v order: baker, butcher, chemist, food/drink, fruit & veg wsagent	urniture, hom ones, photog getables,		brite [2
(iv	- 1 If a App con e.g	bothesis is true / correct / greater variety of shop & se mark reserve nswer is Hypothesis is not true = 0 broximately 23 – 26 different types of shop / service in npared to 8 – 10 in retail park . cinema in CBD but not in retail park (must have exar mark maximum for correct pair of figures from Table 5	n CBD mple)	3D	
	Coi Coi	al in CBD is 82 compared with 14 in retail park mparison / high order shops is 44 compared to 10 nvenience / low order shops is 13 compared to 1 vices is 18 compared to 3			[3]
c) (i)	Do Be	rk in pairs, not alone not block pavement / entrance to shops polite to interviewees / thank them cept that some people won't want to answer questions	s / check if pe	eople are willing	to
	Ask san Cho	k a range of people / get a representative sample of ag nple / ask every 10 th person pose a time when there are plenty of people shopping plain what survey is about		get a random 3 @ 1	[3]
(ii	pro Op	eck that the questions can be understood / test questi- blems/ check sample size portunity to change questions / alternative answers / r n confidence in asking questions / practice / gain exp	make improve		[2]
d) (i)	wid	mpletion of pie graph for CBD: e range of shops = 51%, value for money = 11% ark for dividing line; 1 mark for shading			
	lf p	ercentages are 'wrong way' round credit correct shadi	ing = 1 mark		[2]
(ii		npletion of bar graph for Retail park d & drink = 30%: furniture / electrical goods = 26%		2 @ 1	[2]
(ii	rea If a Attr Esp	pothesis is true / correct /shoppers are attracted to sh sons – 1 mark reserve nswer is Hypothesis is not true = 0 racted to CBD by large range of shops becially go to CBD to buy clothes / jewellery racted to Retail park by good parking	hopping cent	res for different	

Page 6	Mark Scheme	Syllabus	www.xtrapaper
	IGCSE – October/November 2012	0460	102
(e) Investiga	ation such as:		an .
., .	eople travelled from to get to the shopping cer	ntres	10.
	en people visited the shopping centres		10
	ople travelled to get to the shopping centres		3
How peo		g centres	Sambridg
How peo How Ion	ople travelled to get to the shopping centres	g centres	3
How peo How Ion Sphere o	ople travelled to get to the shopping centres g people planned to spend in the two shopping	g centres	3
How peo How lon Sphere o Times w	ople travelled to get to the shopping centres g people planned to spend in the two shopping of influence		
How peo How lon Sphere o Times w Who sho	ople travelled to get to the shopping centres g people planned to spend in the two shopping of influence hen people shop		
How peo How lon Sphere o Times w	ople travelled to get to the shopping centres g people planned to spend in the two shopping of influence hen people shop		
How peo How lon Sphere o Times w Who sho	ople travelled to get to the shopping centres g people planned to spend in the two shopping of influence then people shop ops – gender / age / tourists or locals / social cl ny people go to each shopping centre		