CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 series

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.



Page 2 Mark Scheme Syllabus F
IGCSE – October/November 2012 0460

Check current / velocity of river / don't work if river is fast-flowing / rapids

Work in pairs / groups of three / don't work alone / don't wander off / work under adult supervision

Let people know where you are going / take mobile phone

Wear waterproof clothing / wellingtons / protective clothing / shoes / Sunblock / insect repellent

Look out for dangerous animals / thorny vegetation / mosquitoes

Do not do fieldwork if river is polluted / Weil's disease / water bottle / do not drink river water Work in daylight / not in dark

Beware of slippery rocks / sharp stones

3 @ 1 [3]

(b) (i) Stretch measuring tape / rope across channel from one bank to the other Measure every 20cm or 0.2m across river

Rest rule / ruler on river bed / floor

Take reading at water surface / wetted length of string or pole

Record measurement in metres / centimetres

1 mark for naming equipment (tape / rope / metre rule / ruler / measuring pole / pebble & string) [5]

- (ii) Advantage: accuracy of reading / digital reading / quicker / simple to read
 Disadvantage: less accurate in low velocity / battery may go flat / expensive / cannot use in
 shallow water 2 @ 1 [2]
- (iii) Measure length or specific length along river

Put float in river

Time how long it takes float to travel the distance / use stopwatch to time when it starts and finishes

Repeat test

Do test at different points across river

[3]

(iv) Average length of time = 110 / 5 = 22 (secs) (29 + 30 + 18 + 25 + 18)

Distance / time = 10(m) / 22 (secs)

Allow time figure calculated above if not 22 (secs)

=0.45 m / sec (must be 2dp) need units

No credit for carry forward of error in time figure

[3]

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(c)	(i)		0.6m deep at 2.0m & complete cross-section line de river channel	(1	+ 1)	[2]
	(ii)	Com	plete bar graphs – 0.7 in middle, 0.77 on outside	2	@ 1	[2]
(d)	(i)	with either 0.36 & 0.4 at sides or highest / biggest / fastest at 0.53 m/sec Need the highest statistic On meander average velocity is 0.77 m/sec on outside bend, compared with either 0.7 & 0.66 in middle and inside bend or biggest / fastest at 0.77 m/sec Do not need units			77 m/sec	[0]
		INO I	Hypothesis mark	2	@ 1	[2]
	(ii)	Stroi	per water in middle of straight cross-section and on nger current / greater velocity where river is deeper ause less friction with bed and banks / hitting the sid		meander @ 1	[2]
	(iii)	resu If an On s On r Boys	ults of boys' fieldwork do not support either hypothelts are opposite – 1 mark reserve swer is Hypothesis / girls' conclusion is supported = straight section velocity is greater on left side / 0.77 meander velocity is greater on the inside bend (left) is' results show little variation in velocity across river t make reference to straight & meander	: 0 left & 0.71 middle		[3]
(e)	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 depth measurement is to the bed not an isolated rock on bed 3 @ 1				[3]	

[Total: 30]

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2 (a) (i) Library, cinema, bank, restaurant/cafe/take-away, travel agent, bus station.

No credit for abbreviations

2@1

[2]

(ii) Reasons such as:

Good accessibility

Grew up with historic development of town

Large number of customers / large threshold / make more money

Near to similar / complementary services / or e.g.s such as bank for people to get money for shopping / restaurant to eat whilst spending the day shopping 2 @ 1 [2]

(iii) Shop owners losing money / forced to close / lack of demand for new shops Competition from other shopping centres / other shops High rents / expensive land / expensive to set up business Move to new shops outside CBD / shopping mall

Decrease in number of customers / recession

2@1

[2]

(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

[2]

(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]

Pag	ge 5	Mark Scheme	Syllabus	Paper		
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	(iii)	High order: clothes, department store, electrical goo- jewellery, motoring goods, music/games/films, mobil sports, toys Low order: baker, butcher, chemist, food/drink, fruit a Newsagent	e phones, photograp & vegetables,			
	(!- A		O complete to ODD			
	(IV)	 Hypothesis is true / correct / greater variety of shop & services in CBD 1 mark reserve If answer is Hypothesis is not true = 0 Approximately 23 – 26 different types of shop / service in CBD compared to 8 – 10 in retail park e.g. cinema in CBD but not in retail park (must have example) 				
		1 mark maximum for correct pair of figures from Tab Total in CBD is 82 compared with 14 in retail park Comparison / high order shops is 44 compared to 10				
		Convenience / low order shops is 13 compared to 1 Services is 18 compared to 3		[3		
(c) (i) Work in pairs, not alone Do not block pavement / entrance to shops Be polite to interviewees / thank them Accept that some people won't want to answer questions / check if peopl talk Ask a range of people / get a representative sample of age / gender / get			_			
		sample / ask every 10 th person Choose a time when there are plenty of people shop Explain what survey is about	ping	@ 1 [3		
	(ii)	Check that the questions can be understood / test questions/ check sample size Opportunity to change questions / alternative answe Gain confidence in asking questions / practice / gain	rs / make improveme	-		
(d)	(i)	Completion of pie graph for CBD: wide range of shops = 51%, value for money = 11% 1 mark for dividing line; 1 mark for shading				
		If percentages are 'wrong way' round credit correct s	shading = 1 mark	[2		
	(ii)	Completion of bar graph for Retail park food & drink = 30%: furniture / electrical goods = 269	% 2	@1 [2		
	(iii)	Hypothesis is true / correct /shoppers are attracted reasons – 1 mark reserve If answer is Hypothesis is not true = 0 Attracted to CBD by large range of shops Especially go to CBD to buy clothes / jewellery Attracted to Retail park by good parking Go to Retail park to buy food / furniture / electrical go				

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(e) Investigation such as:

Where people travelled from to get to the shopping centres

How often people visited the shopping centres

How people travelled to get to the shopping centres

How long people planned to spend in the two shopping centres

Sphere of influence

Times when people shop

Who shops – gender / age / tourists or locals / social class / different standard of living

How many people go to each shopping centre

Compare prices [2]

[Total: 30]