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.

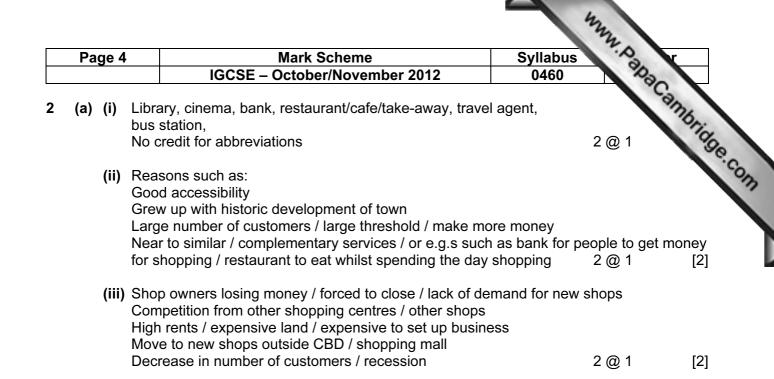
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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.

| | | | | 22 | 2 |
|-------|---|---|--|--|-----------------------|
| Pa | ge 2 | 2 | Mark Scheme | Syllabus | S. Y |
| | | | IGCSE – October/November 2012 | 0460 | 200 |
| (a) | Che Wo sup Let We rep Loc | eck cu ork in p pervisi t peopl ear wa pellent ok out | le know where you are going / take mobile phone terproof clothing / wellingtons / protective clothing | quitoes | / insect |
| | | | daylight / not in dark of slippery rocks / sharp stones | 3 | @1 [; |
| (ii) | Dis | Rest Take Reco 1 ma & str | ge: accuracy of reading / digital reading / quicker , ntage: less accurate in low velocity / battery may g | e / ruler / measuring / simple to read go flat / expensive / | [{ |
| (iii) | Put Tim finis Rep | t float ne hov shes peat te | length or specific length along river in river v long it takes float to travel the distance / use sto est t different points across river | opwatch to time whe | n it starts and [{ |
| (iv) | Dis Allo =0.4 | stance ow tim .45 m / | length of time = 110 / 5 = 22 (secs) (29 + 30 + 18 / time = 10(m) / 22 (secs) he figure calculated above if not 22 (secs) / sec (must be 2dp) need units t for carry forward of error in time figure | 3 + 25 + 18) | [; |

| | 3 | Mark Scheme | Syllabus | a. | N. Contraction of the second s |
|-----------------|---------------------------------|---|-------------------------|-------------------------------|--|
| | | IGCSE – October/November 2012 | 0460 | 10g | |
| (c) (i) | | 0.6m deep at 2.0m & complete cross-section line de river channel | | 44444, Panace (1+1) 2@1 | mbride |
| (ii) | Con | nplete bar graphs – 0.7 in middle, 0.77 on outside | | 2 @ 1 | 36 |
| (d) (i) | with Nee On with | straight section average velocity in middle is 0.53 m/sec either 0.36 & 0.4 at sides or highest / biggest / fastest ed the highest statistic meander average velocity is 0.77 m/sec on outside ben either 0.7 & 0.66 in middle and inside bend or biggest not need units | at 0.53 m/sond, compare | ec | |
| | | Hypothesis mark | | 2 @ 1 | [2] |
| (ii) | Stro | eper water in middle of straight cross-section and on out onger current / greater velocity where river is deeper ause less friction with bed and banks / hitting the sides | | of meander 2 @ 1 | [2] |
| (iii | resu If ar On s On Boy | sults of boys' fieldwork do not support either hypothesis ults are opposite – 1 mark reserve newer is Hypothesis / girls' conclusion is supported = 0 straight section velocity is greater on left side / 0.77 left meander velocity is greater on the inside bend (left) / 0. s' results show little variation in velocity across river at make reference to straight & meander | & 0.71 mide | dle | |
| Do Inv Us | expe vestiga e flow | experiment on different days / month / season to compa riments at more sites along river ate another river /meter student checks to make sure measurements are accura | | | |
| | ouner | that depth measurement is to the bed not an isolated ro | | 3@1 | [3] |



(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 | e 5 | Mark Scheme | Syllabus | No V | |
|------|-----|--|---|------------|-------|
| | | IGCSE – October/November 2012 | 0460 | The second | |
| (| | High order: clothes, department store, electrical goods, fu jewellery, motoring goods, music/games/films, mobile pho sports, toys Low order: baker, butcher, chemist, food/drink, fruit & veg Newsagent | urniture, homo ones, photog getables, | | bilde |
| | | - | | 2 @ 1 | [2] |
| (| | Hypothesis is true / correct / greater variety of shop & se - 1 mark reserve If answer is Hypothesis is not true = 0 Approximately 23 – 26 different types of shop / service in compared to 8 – 10 in retail park e.g. cinema in CBD but not in retail park (must have exan | CBD | D | |
| | | 1 mark maximum for correct pair of figures from Table 5 a 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 | as follows: | | [3] |
| c) (| | 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 talk Ask a range of people / get a representative sample of ag | | | to |
| | | sample / ask every 10 th person Choose a time when there are plenty of people shopping Explain what survey is about | je / gender / j | 3 @ 1 | [3] |
| (| | Check that the questions can be understood / test question problems/ check sample size Opportunity to change questions / alternative answers / m Gain confidence in asking questions / practice / gain expe | nake improve | - | [2] |
|) (b | | 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 shadi | ng = 1 mark | | [2] |
| (| | Completion of bar graph for Retail park food & drink = 30%: furniture / electrical goods = 26% | | 2 @ 1 | [2] |
| (| | Hypothesis is true / correct /shoppers are attracted to sh 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 goods | | | И |

| Page 6 | Mark Scheme | Syllabus 🔪 | M. Daba |
|---|--|------------|---------|
| | IGCSE – October/November 2012 | 0460 | 122 |
| (a) Investia: | tion such as: | | in the |
| ., . | | | 76 |
| Where n | onle travelled from to get to the shopping centre | 20 | |
| | eople travelled from to get to the shopping centre on people visited the shopping centres | es | Tido |
| How ofte | n people visited the shopping centres | es | Hade |
| How ofte How peo | n people visited the shopping centres ple travelled to get to the shopping centres | | mbridge |
| How ofte How peo How long | n people visited the shopping centres ple travelled to get to the shopping centres g people planned to spend in the two shopping ce | | stidge. |
| How ofte How peo How long Sphere o | n people visited the shopping centres ple travelled to get to the shopping centres g people planned to spend in the two shopping ce of influence | | stidge. |
| How offe How peo How long Sphere o Times w | n people visited the shopping centres ple travelled to get to the shopping centres g people planned to spend in the two shopping ce of influence hen people shop | entres | |
| How ofte How peo How long Sphere o Times w Who sho | n people visited the shopping centres ple travelled to get to the shopping centres g people planned to spend in the two shopping ce of influence | entres | |

[Total: 30]