UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2004 question paper

0460 GEOGRAPHY

0460/04   Paper 4 (Alternative to Coursework), maximum mark 60

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

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CIE is publishing the mark schemes for the November 2004 question papers for most IGCSE and GCE Advanced Level syllabuses.

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Grade thresholds taken for Syllabus 0460 (Geography) in the November 2004 examination.

	maximum mark available	minimum mark required for grade:			
		A	C	E	F
Component 4	60	37	28	19	16

The threshold (minimum mark) for B is set halfway between those for Grades A and C.
The threshold (minimum mark) for D is set halfway between those for Grades C and E.
The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.
Grade A* does not exist at the level of an individual component.

November 2004

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0460/04

GEOGRAPHY
Alternative to Coursework

Res = Reserved mark
H or Hyp = Hypothesis
Dev = Development of a point
Des = Description
Imp = improvement

1 (a) characteristics should be more than the CBD and focus on the central point of the CBD e.g.
most accessible location/where main roads meet;
busiest/lots of people/highest number of pedestrians;
most traffic/most congested/noisiest area;
tallest buildings/highest buildings;
highest cost of land/highest rents/highest rates;
high street shops/comparison shops/large shops/department stores;
banks/services/offices/public buildings etc.

4 @ 1 mark

max 2 marks for general comments about CBD rather than specific central area of CBD

[4]

(b) (i) must be related to site selection

2 @ 1 mark

advantage:

wide area/all around X/large area/all different directions /equal distance or area in paces idea/no bias /easy/simple

disadvantage:

different length or size paces/not equal distance/ depends on the roads/depends on the direction/does not include outer area of town

[2]

(ii) name/student group;
date;
time;
location/road name/site number/direction from X;
pedestrian flow direction;
weather

2 @ 1 mark

[2]

(c) (i) isoline 30 should be drawn half way between the 10 isoline and the 50 isoline on the Insert, with 2mm tolerance.

must not include the points 24, 26 or 28 within area

4 @ 1 mark

3 marks for line (top, left and right)

res 1 mark for label of 30

[4]

(ii) correct identification of area over 50 pedestrians/area inside 50 line;

2 @ 1 mark
1 mark for identifying the correct area

correct use of key shading

1 mark for using the key correctly.

[2]

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(d) **(i)** number of pedestrians decreases away from X;   2 @ 1 mark
not an even distribution but bulges in the S and   1 mark for
W/higher number in the south and west   general
     recognition of
     decrease
     1 mark for
     recognising
     uneven decrease   **[2]**

    (ii) identify services on map likely to attract pedestrians e.g.   4 @ 1 mark
bank; secondary school, car park
reasons for change for each service e.g. people are   max 2 marks for
attracted to and from the Bank   service
car park attracts people because they park the car and
walk to X;
side streets attract less people;   **[4]**

(e) **(i)** item bought infrequently/bought after comparing prices   2 @ 1 mark
/high value/high profit margin
e.g. TV/CD player/ furniture/shoes/clothes   credit correct
     example   **[2]**

    (ii) e.g. survey the 60 shops and count the number of   2 @ 1 mark
conv/comp and apply that ratio to 20 shops/find out the
type of every shop then ask a proportion of each; e.g.
ask every 3rd shop/systematic sample;
different sizes of shops;
different types of shops;
variety of locations   **[2]**

(f) shopkeepers may be in a hurry; did not know; cannot   2 @ 1 mark
remember;
subjective/biased/not quantitative;   credit
could be more than one period;   development
may not fit times of survey/recording sheet;
results may vary with different days   **[2]**

(g) credit the decision that the hypothesis is true;   4 @ 1 mark
the decrease in pedestrians is not even;   res 1 for Hyp
     credit
credit evaluation comments such as: development of
     ideas
repeat more interviews with shopkeepers;
use the results of the interviews to select times of   res 1 for imp
counts;
repeat pedestrian survey at different times;   credit
12.00 - 14.00 i.e. busiest;   development of
repeat on different days   ideas   **[4]**

                                    Total 30 Marks

2 (a) rope extended/held/across stream;   3 @ 1 mark
rope marked/knotted at 0.5 m intervals;
measuring stick placed into stream vertically/to
bed/depth measured every 0.5 m across stream;

also credit points if on diagram   **[3]**

(b) (i) 2 marks for correct plotting depth at 490, 390 and 0   2 @ 1 mark
with line joining all points;

max 1 if not to 0 at B   max 1 mark if one
max 1 if no line   incorrect point
                                               0 marks if 2
                                               incorrect points   **[2]**

(ii) general pattern e.g. shallow at A and gradually   2 @ 1 mark
becoming deeper/depth increases then decreases from
A to B;   max 1 mark for
                                               list

specific comment or data e.g. deepest area at 2 m   credit dev for 2nd
/steeper gradient before B/not uniform change/irregular   mark
change
                                                                    [2]

(c) (i) for a more reliable/more representative/accurate   1 @ 1 mark
/average result;   **[1]**

(ii) 10m divided by average time (secs)/10m (i.e. distance)   1 @ 1 mark
divided by Average Time (secs)   **[1]**

(iii) complete graph at 0.36 and 0.31;   3 @ 1 mark
tolerance 2 mm

2 marks for correct height of bars
1 mark for correct width with division at 2.75
                                                                    [3]

(d) (i) description: e.g. first 1.5 m is shallower with lower   4 @ 1 mark
velocity;
central area is the deepest and the fastest water;   res 1 for
                                                       description

credit use of depth/velocity data

explanation: e.g. friction of the riverbed slows down the   res. 1 for
water/deeper water can overcome the frictional drag so   explanation
faster flow of water;   **[4]**

(ii) object is restricted from free flow by water plants;   2 @ 1 mark
restricted by rocks etc.;
student error in timing;
effects of wind   **[2]**

(e) **(i)** labels with arrows   3 @ 1 mark

- to right bank area of deposition i.e. slip off slope;
- to left bank area showing slight lateral erosion area/undercutting;
- to flat area probably to left of river i.e. flood plain/any area likely to flood **[3]**

(ii) meander shown/asymmetrical cross-section;   3 @ 1 mark
depth/speed greater on outside of bend/meander;   res 1 for
erosion on outside of bend/meander but deposition on   how/des
inside of bend;   res 1 for
different friction/velocity due to different cross-section   why/exp
shape

max 2 marks if no comparison with Fig. 2 **[3]**

(f) **(i)** e.g. hypothesis true/correct;   3 @ 1 mark
(take care not to credit wording of the hypothesis)   res 1 for H
                                                          max 2
comments to support the decision e.g. deeper water in   marks if no
centre has highest velocity/shallower depth has slower   depth
speed; 0.36m/sec compared to 0.26m/sec   /velocity
                                                          data **[3]**

(ii) more sites; different rivers; other times of year; more   3 @ 1 mark
speed measurements; use of a flow meter; etc.   credit dev **[3]**

Total 30 Marks