

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*.

CIE will not enter into discussion or correspondence in connection with these mark schemes.

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

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

Page 1	Mark Scheme	Syllabus	
	IGCSE – NOVEMBER 2004	0460	

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; 2 @ 1 mark
date;
time;
location/road name/site number/direction from X;
pedestrian flow direction;
weather [2]
- (c) (i)** isoline 30 should be drawn half way between the 10 isoline and the 50 isoline on the Insert, with 2mm tolerance. 4 @ 1 mark
3 marks for line (top, left and right)
must not include the points 24, 26 or 28 within area
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]

Page 2	Mark Scheme	Syllabus	
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- (d) (i) number of pedestrians decreases away from X; not an even distribution but bulges in the S and W/higher number in the south and west 2 @ 1 mark
1 mark for general recognition of decrease
1 mark for recognising uneven decrease [2]
- (ii) identify services on map likely to attract pedestrians e.g. bank; secondary school, car park reasons for change for each service e.g. people are attracted to and from the Bank 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 /high value/high profit margin e.g. TV/CD player/ furniture/shoes/clothes 2 @ 1 mark
credit correct example [2]
- (ii) e.g. survey the 60 shops and count the number of 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 remember; subjective/biased/not quantitative; could be more than one period; may not fit times of survey/recording sheet; results may vary with different days 2 @ 1 mark
credit development [2]
- (g) credit the decision that the hypothesis is true; the decrease in pedestrians is not even; credit evaluation comments such as:
repeat more interviews with shopkeepers; use the results of the interviews to select times of counts; repeat pedestrian survey at different times; 12.00 - 14.00 i.e. busiest; repeat on different days 4 @ 1 mark
res 1 for Hyp credit development of ideas
res 1 for imp credit development of ideas [4]

Total 30 Marks

Page 3	Mark Scheme	Syllabus	
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- 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 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]

Page 4	Mark Scheme	Syllabus	
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- (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; depth/speed greater on outside of bend/meander; erosion on outside of bend/meander but deposition on inside of bend; different friction/velocity due to different cross-section shape 3 @ 1 mark
res 1 for how/des
res 1 for why/exp
- max 2 marks if no comparison with Fig. 2 **[3]**
- (f) (i) e.g. hypothesis true/correct; (take care not to credit wording of the hypothesis) 3 @ 1 mark
res 1 for H
max 2
marks if no
depth
/velocity
data **[3]**
- comments to support the decision e.g. deeper water in centre has highest velocity/shallower depth has slower speed; 0.36m/sec compared to 0.26m/sec
- (ii) more sites; different rivers; other times of year; more speed measurements; use of a flow meter; etc. 3 @ 1 mark
credit dev **[3]**

Total 30 Marks