

#### **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

International General Certificate of Secondary Education

#### MARK SCHEME for the November 2003 question papers

	0460 GEOGRAPHY
0460/01	Paper 1 (Core), maximum mark 75
0460/02	Paper 2 (Extended), maximum mark 75
0460/03	Paper 3, maximum mark 60
0460/05	Paper 5 (Alternative to Coursework), maximum mark 60

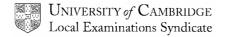
These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking 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 discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2003 question papers for most IGCSE and GCE Advanced Level syllabuses.



## Grade thresholds taken for Syllabus 0460 (Geography) in the November 2003 examination

	maximum	m	inimum mark re	equired for grad	e:
	mark available	Α	С	E	F
Component 1	75		43	35	27
Component 2	75	45	30	24	
Component 3	60	43	37	23	20
Component 5	60	40	31	23	19

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 2003

# **INTERNATIONAL GCSE**

# MARK SCHEME

**MAXIMUM MARK: 75** 

SYLLABUS/COMPONENT: 0460/01

GEOGRAPHY Core

			IGCSE – NOV 2003	0460	1
1	(a)		<ul><li>1 high and fluctuating,</li><li>2 falling,</li><li>3 low,</li><li>4 low and fluctuating.</li></ul>	at 1 mark	[4]
		(ii)	Stage 2.		[1]
		(iii)	birth rate still high, death rate falling steeply/low death rate, biggest gap between birth rate and death rate.	at 1 mark	[2]
		(iv)	where death rate rises above birth rate in Stage 1.		[1]
		(v)	death rate higher than birth rate.		[1]
	(b)	(i)	tradition, religious pressures, zeal for son - inheritance, low literacy rate/awareness/lack of education, difficulties of instituting family planning policies, size of country/dispersed nature of population, expense of introducing family planning policies, lack of/unpopularity of abortion/sterilisation, pressure in rural areas - need children to work on farr large number of children to look after parents in old a high infant mortality - hence large families – falling depolygamy.	ge,	[4]
		(ii)	prevent overpopulation/demand on resources, avoid increase in dependency ratio, lowering of living standards, poverty, shortages - water/land, high levels of future unemployment, famine/food shortages, malnutrition,		

**Syllabus** 

4 at 1 mark

[4]

Page 1

decline of infrastructure - e.g. roads, inadequate housing/squatters,

inadequate educational facilities,

exhaustion of soil,

lack of health facilities, possible civil unrest.

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	1

(iii) better medical facilities, up to 2 marks medicines, more doctors/hospitals, more food. improved diets less malnutrition, housing improvements, improved water supplies/sanitation, development of industries, improved standard of living, education on hygiene/diet. [4] 4 at 1 mark (iv) underpopulation/underuse of resources, ageing population, increase in dependency ratio, increased spending on older dependents, max 2 marks stagnant/declining population growth, labour shortages, max 2 marks, lack of defence forces. [4] 4 at 1 mark 2 (a) (i) population in towns/cities. [1] (ii) A 191, **B** 977. [2] (iii) Latin America. [1] (iv) much higher in the developed regions – 73.3 % + developing regions lower - 24-37%. [2] 2 at 1 mark (v) Australia - New Zealand. [1] **(b) (i)** pull-push factors - no repetition/obverse, max 4 marks high birth rates, rural-urban migration. 5 at 1 mark [5] (ii) no planning, poor building materials - metal sheeting etc., lack of open spaces, no roads, overcrowding/high density of settlement, open drains/sewers, run into river, waste/garbage/pollution in river, flat roof, single storey, small building/houses, poles for electricity. <u>5 at 1 mark</u> [5]

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	1

(iii) A buildings do not regulate temperatures, may not be waterproof, lacking basic facilities - electricity, piped water, sanitation, overcrowding/high density of settlement, large numbers per property, health hazards - disease, untreated sewage, lack of social/medical facilities, unemployment, high infant mortality, low life expectation, inability of squatters to afford better housing, limited availability of alternative housing, unemployment/limited/low incomes of squatter dwellers, social problems - maximum, traffic congestion (credit once in A or B). [5] <u>5 at 1 mark</u> **B** loss of land for other uses, pollution, water - waste/garbage in river, air, visual, social problems (credit once in A or B), fire hazard. 3 at 1 mark [3] 3 (a) (i) named parts/areas within Circum-Pacific zone, S. Europe - Middle East - S.E. Asia. 2 at 1 mark [2] (ii) yes. [1] (iii) plate boundaries, unstable areas. [1] (iv) mountains formed by folding of rocks, areas where most of earth's earthquakes experienced, volcanoes likely to erupt. Reserve 1 mark for each 3 at 1 mark [3] (v) great strength epicentre 7-8/magnitude, up to 150 km. 6-7, affected wide area. including a number of large cities. 2 at 1 mark [2]

Pa	age	4	Mark Scheme		Syllabus	Paper
	-J-		IGCSE – NOV 2003		0460	1
		(vi)	strength, size of area affected, population density, location - rural/urban area, time of day, type of buildings, depth of focus, emergency services.	<u>2 a</u>	ıt 1 mark	[2]
(	(b)	(i)	E higher, steeper cone, F covers wider area.	<u>2 a</u>	ıt 1 mark	[2]
		(ii)	F basic - more fluid/low in silica, flows quickly, accept obverse - E acid - viscous/more silica, moves slowly/solidifies quickly.	<u>2 a</u>	ıt 1 mark	[2]
		(iii)	pressure, magma reaches surface through a fissure/weaknes	SS.	ıt 1 mark	[2]
	(c)		active volcanoes – loss of life, injuries/toxic fumes, destruction of property,	<u>4 a</u>	ıt 1 mark	[4]
			loss roads/interference with communications, loss of agricultural land/crops/forests, evacuation.	<u>4 a</u>	ıt 1 mark	[4]
4	(a)	(i)	<ul><li>A barograph/aneroid barometer/barometer,</li><li>B anemometer,</li><li>C wind/weather vane/weather cock.</li></ul>	<u>3 a</u>	ıt 1 mark	[3]
		(ii)	metal cylinder (vacuum), spring contracts/expands - pressure changes, max conveyed to pointer, rotating drum with paper/barograph, trace shown.	1 r	mark	
				<u>3 a</u>	ıt 1 mark	[3]

Page	5	Mark Scheme		Syllabus	Paper
ı aye	<u> </u>	IGCSE – NOV 2003		0460	1 aper
	(iii)	<b>B</b> - wind speed,			
	(,	C - wind direction.			
			<u>2 a</u>	t 1 mark	[2]
	(iv)	high/on roof/pole,			
	` ,	away from buildings/trees/open area,			
		to record free flow of wind.			
			<u>2 a</u>	<u>t 1 mark</u>	[2]
(b)	(i)	west coast of continents and continental location,			
		around the two Tropics.			
			<u>2 a</u>	<u>t 1 mark</u>	[2]
	(ii)	high temperatures,			
		large annual range,			
		large daily range/high day – low night.	2 -	4.4 magnit	[0]
			<u> 2</u> a	t 1 mark	[2]
		low rainfall,			
		infrequent erratic,			
		unreliable, heavy/thunderstorms/concentrated.			
		neavy/munderstorms/concentrated.	2 a	t 1 mark	[2]
	/:::\	many plants down out for your			
	(111)	many plants dormant for years, quick growing plants,			
		shallow roots - short lived rains,			
		deep roots - underground water,			
		moisture stored in bulbs,			
		thick/hairy/waxy leaves/spiky,			
		thick bark,			
		storage in trunks.	2 a	t 1 mark	[2]
			<u> </u>	it i mant	[-]
(c)		deflation hollow/sand blown away, reaches water bearing rock/aquifer,			
		sloping/dipping (strata),			
		receives water from rainfall outside the desert,			
		water at surface in oasis.			
			<u>3 a</u>	t 1 mark	[3]
(d)	(i)	exfoliation/alternate expansion and contraction/oni	ion \	weathering.	
					[1]
	(ii)	high temperatures in the day/over 40°C,			
	(,	night falls below 10° C/cools,			
		rock poor conductor of heat,			
		rock surface expands during day,			
		contracts at night,			
		stress - outer part of rock cracks/joints, outer layers peel away,			
		shattered rock fragments fall to floor,			
		main rock rounded,			
		process accelerated with slight amount of rain.	_		
			<u>2 a</u>	t 1 mark	[2]
	(iii)	Results.			
					[1]

Page 5

Page 6 Mark Scheme Syllab		Syllabus	Paper		
<u> </u>	age	<u> </u>	IGCSE – NOV 2003	0460	1
5	(a)		farmer produces for himself and family, food crops, little or no sales.		roi
			<u>2 a</u>	<u>ıt 1 mark</u>	[2]
		(ii)	ploughing - turning soil, making it ready for sowing croplanting - sowing crops, harvesting - gathering/picking crops/uprooting.		[2]
		(iii)	cost of newer methods,	<u>it 1 mark</u>	[3]
			tradition/culture, lack of education/understanding/knowledge of newer ronly small plots.	methods,	
			<u>2 a</u>	<u>ıt 1 mark</u>	[2]
		(iv)	farmer does not have to time activities with rainy seas- given supply of water/reliable, 2 crops/double cropping, extends growing season.	on,	
				ıt 1 mark	[2]
				vesters, at 1 mark	[4]
	(D)	(1)	A for 10 years.		
			B poverty, unequal distribution of wealth, population explosion in developing world.  C there is no food shortage, population and food supply have increased, problem - population growth greatest in developing co feed all its people, food shortages likely to worsen in the developing world For each of A, B and C		
				it 1 mark	[5]
		(ii)	overpopulation, lack of investment/poverty, outdated methods of production/lack of fertilizer, war/political unrest, natural disasters, credit examples, e.g. drought - Sahel etc.		[4]

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	1

(iii) efficient methods,

large investment,

subsidies,

EU/CAP,

large-scale production,

extensive use of fertilisers,

pesticides,

machinery,

low increase of population,

educated labour force/training/modern methods,

favourable natural inputs,

surplus for export.

3 at 1 mark [3]

6 (a) (i) 62-63%.

[1]

(ii) mechanised agriculture, primary products imported more cheaply.

[1]

(iii) greater percentage in primary,

less in manufacturing,

less in service sector.

3 at 1 mark [3]

#### (iv) developed countries -

agriculture more mechanised,

earlier manufacturing - C19-C20,

developing countries going through industrial development,

greater demand for services,

greater amount of skill/educated/trained labour force,

more capital for investments.

3 at 1 mark [3]

(v) provide a service, - reserve 1 mark

teachers,

lawyers,

transport workers etc.

3 at 1 mark

(b) (i) area.

[1]

[3]

#### (ii) labour –

skilled labour,

well educated/universities/technical colleges,

expert management,

different skill levels - subcontracting/division of labour.

#### transport -

high speed transport - components and products, proximity to/links to airport, major road links.

Page 8	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	1

#### research and development -

research and development/universities, government support.

**siting factors -** science parks - planning, away from congested areas, possibly low cost land areas.

3 factors <u>3 at 1 mark</u> [3]

(iii) not tied to location factors, e.g. raw materials, free location.

[1]

(c) (i) greenhouse gases especially CO<sub>2</sub>,

traps sun's rays,

burning fossil fuels,

industrial pollution,

increased use of motor vehicles,

burning forests/deforestation,

release from some agricultural activities of greenhouse gases – wet rice/cattle ranching - methane.

3 at 1 mark [3]

(ii) northern parts of

Europe,

Asia-Northern/Siberia,

N. America/Canada,

Arctic regions.

2 marks [2]

(iii) rise of sea level with increase of temperature,

melting of ice sheets,

loss of low lying areas/river deltas,

many cities - low lying areas - flooding,

flooding of islands,

flooding of coastal installations - storage tanks, piers,

wildlife in salt marshes/coral reefs destroyed,

salination of fresh water supplies,

changes in global climates,

effects on ecosystems,

extinction of some species of animals/plants,

loss in biodiversity,

natural forest fires,

droughts,

crop yields could decline,

present drier areas may experience more rain,

desertification.

4 at 1 mark [4]



## November 2003

# **INTERNATIONAL GCSE**

# MARK SCHEME

**MAXIMUM MARK: 75** 

SYLLABUS/COMPONENT: 0460/02

GEOGRAPHY Extended

Page 1	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	2

## 1 (a) (i) birth rate curve –

in 1, high constant, remains high in 2, steep fall in 3, low fluctuating in 4.

[2]

#### death rate curve -

high fluctuating in 1, steep decline in 2, steady fall in 3 and 4.

[2]

#### (ii) birth rate -

birth control measures.

2 at 1 mark [2]

#### death rate -

improvements in health/medical, food, living conditions, greater affluence.

> 2 at 1 mark [2]

(iii) slower increase/rate of growth/remains steady, steeply falling/declining birth rate, birth control measures/family planning, death rate remains low.

3 at 1 mark

[3]

## (b) (i) tradition,

religious pressures,

desire for son - inheritance,

ignorance of large sectors of the population on need to reduce B.R./low literacy rate/awareness/lack of education,

difficulties of instituting family planning policies,

size of country/dispersed nature of population,

expense of introducing family planning policies,

lack of/unpopularity of abortion/sterilisation,

pressure in rural areas - need children to work on farms,

large number of children to look after parents in old age,

high infant mortality - hence large families - falling death rate,

polygamy.

[6] <u>6 at 1 mark</u>

(ii) underpopulation/underuse of resources,

ageing population,

increase in dependency ratio,

increased spending on older dependents,

stagnant/declining population growth,

labour shortages, max 2 marks

armed forces shortages.

5 at 1 mark [5]

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	2

(iii) may not experience decline in birth rate, may not industrialise,

with lower birth rate and death rate.

[3] 3 at 1 mark

2 (a) relatively slow rate of growth - developed regions,

rapid increase - developing regions,

greatest increase - Asia,

percentage living in urban areas increased throughout the world,

continued to grow - developed regions,

highest percentage - Australia and New Zealand,

great increase in percentage growth in developing regions,

especially Latin America.

max 3 marks for calculated stats

6 at 1 mark [6]

(b) (i) no planning,

poor building materials - metal sheeting etc.,

lack of open spaces,

no roads,

overcrowding/high density of settlement,

open drains/sewers,

run into river,

waste/garbage/pollution in river,

flatroof,

small building/houses,

poles for electricity,

single storey.

6 at 1 mark [6]

(ii) rapid urbanisation/rural-urban migration,

pull-push factors - no repetition/obverse, max 5 marks

high birth rates,

lack of cash/poverty,

better to squat than to sleep anywhere/rough.

6 at 1 mark [6]

(iii) buildings do not regulate temperatures,

may not be waterproof,

lacking basic facilities - electricity, piped water, sanitation,

overcrowding/high density of settlement,

large numbers per property,

health hazards - disease,

untreated sewage.

lack of social/medical facilities,

unemployment,

high infant mortality,

low life expectation,

inability of squatters to afford better housing,

limited availability of alternative housing,

limited/low incomes of squatter dwellers,

social problems -

maximum 1 mark maximum 2 marks

pollution -

water - waste/garbage in river,

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	2

visual, traffic congestion, fire hazard.

<u>7 at 1 mark</u> [7]

3 (a) (i) plate boundaries,

Circum-Pacific zone,

S. Europe - Middle East - S. E. Asia,

Mid Atlantic,

E. African rift valley.

3 of these/parts of these areas.

3 at 1 mark [3]

(ii) plate boundaries if not given in (a) (i), destructive plate boundaries/subduction, constructive plate boundaries/sea floor spreading, earth movements associated with rift valley formation, instability/release of pressure, faulting, sudden movements, conservative boundaries.

3 at 1 mark [3]

(b) (i) destructive plate boundary/converging plates, pressure/compressional forces/subduction, folding of layers of sediment

folding of layers of sediment, anticlines/synclines,

symmetrical/asymmetrical,

overfolds,

recumbent folds,

overthrusts/nappes,

subduction,

sediment accumulation.

Max 1 mark

<u>5 at 1 mark</u> [5]

(ii) great strength epicentre 7-8 magnitude,

up to 150 km. 6-7 magnitude,

large number of fatalities,

affected wide area,

including a number of large cities,

others - less strong,

affect a more restricted area.

area with a low population density,

timing of earthquake,

depth of focus.

<u>4 at 1 mark</u> [4]

(iii) basic - more fluid/low in silica, acid- viscous/more silica, gentle slopes, steeper slopes,

flows quickly, moves slowly/solidifies quickly.

3 at 1 mark [3]

Page 4		e 4	Mark Scheme		Syllabus	Paper
			IGCSE – NOV 2003		0460	2
		(iv)	fertile/infertile soils - relation to basic/acidic lavas, mineral deposits, e.g. sulphur, geothermal energy, tourist potential, volcanic activity, evacuation, loss of life, loss of/damage to property, destruction of agricultural land,	Reserve	2 for oppor 2 for proble ark for exar	ems
			loss of communications.	<u>7 at</u>	1 mark	[7]
4	(a)		latitude, pressure systems and associated winds, distance from sea/continentality, altitude, ocean currents, aspect.			
			aspect.	4 at	1 mark	[4]
	(b)	(i)	area of infrequent, low rainfall, hot/tropical location.	<u> </u>	<u> </u>	1.1
			·	<u>2 at</u>	1 mark	[2]
		(ii)	two of - latitude - 15° - 30° latitude, around the two Tropics, pressure - high pressure/descending air, offshore trade winds, distance from sea – west coast of continents away from maritime influence of onshore winds ocean currents - cold currents offshore, winds blowing over cold currents.	S,	nental loca 2 marks	tion,
	(c)	(i)	blown sand/particles, attacks rocks, especially effective just above ground level.	<u>2 at</u>	<u>1 mark</u>	[2]
			wind removes loose particles - sand and dust, blown away.	<u>2 at</u>	1 mark	[2]
		(ii)	A weaker layers in rock outcrop, eroded - abrasion, most effective just above ground level - under resistant rocks eroded more slowly - irregular swater erosion may play a more dominant role to B deflation - sand blown away, hollow created, deflation reaches downwards to water bearing permeable layer/aquifer.	shapes, than wind <u>3 at</u>	erosion. <u>1 mark</u>	[3]

Syllabus

Paper

Page 4

	Pag	e 5	Mark Scheme IGCSE – NOV 2003		Syllabus 0460	Paper
			IGCSE - NOV 2003		0460	2
			<u>;</u>	<u>3 at</u>	1 mark	[3]
		(iii)	exfoliation/alternate expansion and contraction/onichigh temperatures in the day/over 40°C, night falls below 10° C/cools, rock poor conductor of heat, rock surface expands during day, contracts at night, stress - outer part of rock cracks/joints, outer layers peel away, shattered rock fragments fall to floor/scree, main rock rounded, process accelerated with slight amount of rain. Reserve for results	on w		
			<u> </u>	<u>5 at</u>	1 mark	[5]
5	(a)	(i)	ploughing wooden plough, buffaloes/oxen/draught animals,		rk for each r	
			sickle and other hand tools.			
			<u>(</u>	6 at	1 mark	[6]
		(ii)	cost of newer methods, tradition/culture, lack of education/understanding/knowledge of newer small plots.			ro.
			3	<u>3 at</u>	1 mark	[3]
		(iii)	farmer does not have to time activities with rainy se given supply of water/reliable, 2 crops/double cropping, extends growing season.		n, <u>1 mark</u>	[3]
	(b)		Green Revolution, HYVs/better yielding seeds, land reform, fertilisers, pesticides, fungicides, modern machinery - e.g. combine harvesters/rice have ducation/training/awareness of new methods, investment, terracing, co-operative.		sters, 1 mark	[6]
			•			

Page 6	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	2

(c) (i) there is no food shortage,

population and food supply have increased,

food supplies have gone up faster and will continue to do so for 10 years, problem - population growth greatest in developing countries which does not feed all its people,

food shortages likely to worsen in the developing world, main problem – poverty and unequal distribution of wealth, calorie intake increased.

3 at 1 mark [3]

(ii) overpopulation,

lack of investment/poverty,

outdated methods of production/lack of fertilizer etc,

war,

natural disasters, credit examples, e.g. drought - Sahel etc.

Max 2 marks

<u> 1 at 1 mark</u>

[4]

6 (a) skilled labour,

well educated/universities/technical colleges,

expert management,

different skill levels - subcontracting/division of labour.

high speed transport - components and products,

proximity to/links to airport

major road links.

Reserve 1 mark for named location Max 4 marks for any one factor

research and development/universities government support.

science parks - planning, away from congested areas, possibly low cost land areas.

centre/centres.

allow development of factors listed, e.g. if specific illustrations given.

<u>6 at 1 mark</u> [6]

(b) (i) increase in global temperatures,

average increase 4°C,

some areas over 8°C increase,

greenhouse gases especially CO<sub>2</sub>,

traps sun's rays,

burning fossil fuels,

industrial pollution,

increased use of motor vehicles,

burning forests/deforestation,

release from some agricultural activities of greenhouse gases -

wet rice/cattle ranching - methane.

<u>6 at 1 mark</u> [6]

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE – NOV 2003	0460	2

(ii) rise in world temperatures,

rise of sea level,

melting of ice sheets,

loss of low lying areas,

river deltas,

many cities - low lying areas - flooding,

flooding of islands,

flooding of coastal installations - storage tanks, piers,

wildlife in salt marshes/coral reefs destroyed,

salination of fresh water supplies,

changes in global climates,

effects on ecosystems,

extinction of some species of animals/plants,

loss in biodiversity,

natural forest fires,

droughts,

crop yields could decline,

present direr areas may experience more rain,

desertification.

6 at 1 mark [6]

(iii) A agreements between nations as to cutting down on CO<sub>2</sub> etc.,

pollution controls, max 2 marks,

control on forest burning,

encouragement of public transport,

alternative sources of energy,

education/awareness.

3 at 1 mark [3]

#### B cost,

lack of co-operation between nations, up to 2 marks

reluctance to recognise the problem,

difficult to reduce industrial production,

increase in industrialisation - developing countries,

difficult to cut down on traffic,

reliance on fossil fuels,

alternative fuels not really developed,

vested interests.

lack of education/awareness,

population increase.

4 at 1 mark [4]



## **November 2003**

# **INTERNATIONAL GCSE**

# MARK SCHEME

**MAXIMUM MARK: 60** 

SYLLABUS/COMPONENT: 0460/03

GEOGRAPHY Paper 3

Page 1		1	Mark Scheme	Syllabus	Pape
	J		IGCSE – NOV. 2003	0460	3
1	(a)	(i)	golf course, club, sport's field, rifle range.	at 1 mark	[0]
			<u> </u>	at 1 mark	[2]
		(ii)	_	at 1 mark	[2]
	(b)	(i)	wide tarred road.		
		(ii)	south-west/south-south-west.		
		(iii)	6500-6800. <u>3</u>	at 1 mark	[3]
	(c)			at 1 mark	[3]
	(d)		flat/gentle slope (lowland = 0), bridge point, road junction (not just 'road'), railway, water supply/wet point, centre cultivated area/estates (plantation/orchard 4	= 0). at 1 mark	[4]
	(e)	(i)	to N/NE, meander/winding, island/braided/eyot, rapids, variable width, many tributaries, gentle gradient/slow flow.	at 1 mark	[3]
		(ii)	high/mountainous/hilly, cols, steep slopes, ridge, lower land in NW, flatter land in NW, shallow valleys, many tributaries/streams/small rivers/small tributa surface drainage, disappearing streams, drainage to N and S/dendritic/radial,	aries/many rivers	s/much
			highest point 1614m (must include units), dense bush.	at 1 mark	[3]

Paper

3 at 1 mark

[3]

Page 2		2	Mark Scheme		Syllabus	Pape
			IGCSE - NOV. 2003		0460	3
2	(a)		rain gauge, anemometer.	2 at 1	mark	[2]
	(b)	(i)	Stevenson Screen.			[1]
		(ii)	hygrometer/wet and dry bulb thermometer (hyd max. and min. thermometer/six's thermometer, barometer.	romete	er = 0),	
			Only mark first two instruments	2 at 1	<u>mark</u>	[2]
		(iii)	legs/stilts/on a stand, louvres/slatted sides/vents/shutters/slits, painted white, sloping roof.			
			Sloping root.	<u>3 at 1</u>	<u>mark</u>	[3]
3	(a)		Difference between birth rate and death rate = Birth rate – death rate = 2 Birth rate – death rate per 1000 or per 100 = 2 Births – deaths = 1.	1		
						[2]
	(b)		Poland.			[1]
	(c)	(i)	position of line (any direction).			[1]
		(ii)	Pakistan dot.			[1]
	(d)		higher life expectancy lower natural increase, higher life expectancy lower population growth. Accept inverse/negative relationships.			
			(Reference to birth rate = 0)			[1]
4	(a)		2 correct divisions at 1 each.			[2]
	(b)		40%/40.			[1]
	(c)		B.			[1]

**Syllabus** 

**Paper** 

Page 2

Page 3		3	Mark Scheme	Syllabus	Pape
			IGCSE – NOV. 2003	0460	3
5	(a)		Area A 24%, Area B 38%.	<u>mark</u>	[2]
	(b)		51/52/53.		[1]
	(c)		more rented/less owner occupied, more houses more than 1 per room/more crowded, higher dependency ratio/smaller working population, more houses without bath, more houses without inside WC, more without car.	= 1	
			(Allow approach based on B.) Must compare either by statement or by using figures e.g. Half own car  80% own a car	for both A a	ind B,
			47% cannot afford to buy a house 15% do not own 12% no bath/WC 1% no bath/WC		[3]
6	(a)	(i)	groyne/breakwater (Walls = 0).		[1]
		(ii)	plant grass/trees/vegetation/plants.		[1]
	(b)		east to west/westwards/from the east, sand piled up on east of groynes/right of groynes.  2 at 1	<u>mark</u>	[2]
	(c)	(i)	spit.		[1]
		(ii)	long/elongated, low, flat, narrow/thin, hooked/curved/2 points at end/claw end, attached one end/distal end unattached, marsh (behind spit), sand/shingle, sand dunes.		
				<u>mark</u>	[4]
7	(a)		flooding (of lowland by rivers).		[1]
	(b)		school near Rumpi/Zgambo/furthest west/Mayembe H near largest population/settlement/many huts/many bu 2 at 1		[2]

Paper

Page 4	Mark Scheme	Syllabus	Paper
	IGCSE - NOV. 2003	0460	3

near cultivated area,
near all weather road,
along seasonal road,
dispersed in east/foothills,
absence in hills/in valleys/on lowland,
on flatter land/absent in steep slopes,
many in the east,
many around Rumpi/Chikalamba.

(Scattered, in groups, type of settlement = 0)

4 at 1 mark [4]



## November 2003

# **INTERNATIONAL GCSE**

# MARK SCHEME

**MAXIMUM MARK: 60** 

SYLLABUS/COMPONENT: 0460/05

GEOGRAPHY
Alternative to Coursework

Page 1			Mark Scheme	Syllabus	Paper
			IGCSE – NOV. 2003	0460	5
1	(a)	(i)	Student's opinion/biased; not quantitative/figures subjective words; different times of day	•	
				2 at 1 ma	rk [2]
		(ii)	Differences of profit; frequency of purchase; cost; range Credit examples to max 1		
				2 at 1 ma	rk [2]
	(b)		Correct completion of pictogram with Walk = 11 symbols; Car = 4 symbols; Bus = 1 symbols; Taxi = 0	ol;	
			Mark the number rather than the presentation 1 = 2 correct, 2 = 3 correct, 3 = 4 correct, 4 = 5 corre	4 at 1 ma	rk [4]
	(c)		Each question must have a descriptive stateme compare A and B shoppers and a possible explanati 2 marks for each compare and a possible explanation and a po	on	on [8]
	(d)	(i)	e.g. 'How long have you spent shopping in Area -?'	3 at 1 ma - wordi quesi	ing of
				- optio	ns
				- layou	t [3]
			0-2 hours 2-4 hours 4-8	3 hours	
		(ii)	People will spend longer in area A; further from vertice people live/longer to travel to area; comparison of take longer to shop, etc.  3 at 1 mark, res. 1	joods	nt [3]
	(e)	(i)	Rude/get people upset/annoyed/too personal	1 at 1 ma	rk [1]
		(11)	To be aware of the range of people asked/biased san Should be linked to this investigation	mpie 1 at 1 ma	rk [1]
		(iii)	e.g. Area A most popular age 31-60 with more r than females (27 compared to 23) but Area B has even spread of ages and more females than males (20)	more	
			,	4 at 1 ma	rk [4]
			No explanation or comparison required just description		
		(iv)	e.g. Students only asked certain people/biased satime of the day; day of the week; the weather; students own observations		
				2 at 1 ma	rk [2]

**Total 30 marks** 

Page 2			Mark Scheme	Syllabus	Paper
			IGCSE - NOV. 2003	0460	5
2	(a)		Quick to use; easy/simple to use; easy to total		
	` ,		No credit for 'accurate'	2 at 1 mai	rk [2]
	(b)		Pebble placed between open ends of callipers/of measure long axis of pebble; the callipers measurement; a ruler is used to measure the operable callipers	remain/ke	eep the
			Credit these details on a diagram	3 at 1 mai	rk [3]
	(c)		Correct plotting for Site X of the 4 categories Max 2 if incorrect order or no key just text  4	at 1 mark	[4]
	(d)		Size change due to attrition with flood movement; Shape change during flood movement due to water of Position change due to flood water bringing material No credit for just 'erosion'		alley [3]
	(e)	(i)	On graph W: Correct plotting of 4,4,10,2, 0, 0 2 ma On graph Z: Correct plotting of 0, 0, 4,6,6,2	arks for eac	ch graph [4]
		(ii)	Cause, e.g. Diurnal/daily changes in temperature; Process, e.g. different minerals expand/contract; e present; salt weathering; chemical weathering/hyd weathering Result, e.g. break down of rock Credit		eze/thaw rk
					[4]
	(f)		Hypothesis correct; Pebble size larger at W and X/smaller at Y and Z; angular at W and X/rounder at Y and Z Credit data used to support statements  Max 2 for on	5 at 1 mai ax 3 if no da	rk ta
					[5]
	(g)	(i)	Greater number produces larger range/different size random selection method; biased student selection; Sampling is the key focus	s/shapes;	
			, J. 1. 1, 1. 1.	2 at 1 mai	rk [2]
		(ii)	Regular selection of pebbles along a transect line; system/no student bias; more scientific not chance An understanding of systematic is the key focus	fairer 3 at 1 mai	rk
			Reserve mark for description		
			·	-	[3]

**Syllabus** 

Page 2

Total 30 marks