

#### **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

Grade threshold	<b>s</b> taken for Sylla	abus 0460 (Geo	graphy) in the N	November 2003	examination	and Cambridge Com
	maximum	m	ninimum mark re	equired for grad	e:	196
	mark available	Α	С	E	F	Se.CO.
Component 1	75		43	35	27	13
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.



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November 2003

# **INTERNATIONAL GCSE**

MARK SCHEME

**MAXIMUM MARK: 75** 

SYLLABUS/COMPONENT: 0460/01

**GEOGRAPHY** Core

			L	1	The same
Page	1	Mark Scheme		Syllabus	N. D
		IGCSE – NOV 2003		0460	10
1 (a)	(i)	<ul><li>1 high and fluctuating,</li><li>2 falling,</li><li>3 low,</li><li>4 low and fluctuating.</li></ul>	<u>4 a</u>	ıt 1 mark	MMM, Palle
	(ii)	Stage 2.			[1]
	(iii)	birth rate still high, death rate falling steeply/low death rate, biggest gap between birth rate and death rate.	2 a	t 1 mark	[2]
	(iv)	where death rate rises above birth rate in Stage 1		<u>it i ilialit</u>	[1]
	. ,	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 or large number of children to look after parents in chigh infant mortality - hence large families – fallin polygamy.	old ag g dea	ie,	[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, decline of infrastructure - e.g. roads, inadequate housing/squatters, exhaustion of soil, inadequate educational facilities, lack of health facilities, possible civil unrest.		t 1 mark	[11]

4 at 1 mark

[4]

Page 2	Mark Scheme	Syllabus	
	IGCSE – NOV 2003	0460	

			my	
Page 2	2	Mark Scheme	Syllabus	Tax I
		IGCSE – NOV 2003	0460	Sec.
		better medical facilities, 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.	up to 2 marks	, Papa Cambridge, com
			4 at 1 mark	[4]
	, ,	underpopulation/underuse of resources, ageing population, increase in dependency ratio, increased spending on older dependents, max 2 r stagnant/declining population growth, labour shortages, max 2 marks, lack of defence forces.	narks	
			4 at 1 mark	[4]
2 (a)	(i)	population in towns/cities.		[1]
		<b>A</b> 191,		
		<b>B</b> 977.		[2]
	(iii)	Latin America.		[1]
		much higher in the developed regions $-73.3 \% +$ developing regions lower - 24-37%.		
		developing regions lower - 24-37 %.	2 at 1 mark	[2]
	(v)	Australia - New Zealand.		
				[1]
(b)	. ,	pull-push factors - no repetition/obverse, max 4 m high birth rates, rural-urban migration.	arks	
			<u>5 at 1 mark</u>	[5]
		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.		
		· ·	5 at 1 mark	[5]

Page 3	Mark Scheme	Syllabus
	IGCSE – NOV 2003	0460

rllabus dbaccambnidge.com (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). <u>5 at 1 mark</u> [5] 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] 2 at 1 mark (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]

			W.	2
Page	4	Mark Scheme	Syllabus	· A
_		IGCSE – NOV 2003	0460	100
(b)		strength, size of area affected, population density, location - rural/urban area, time of day, type of buildings, depth of focus, emergency services.  E higher,	Syllabus 0460	[2]
		steeper cone, F covers wider area.	2 at 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 at 1 mark</u>	[2]
	(iii)	pressure,		
	(,	magma reaches surface through a fissure/weakr	ness. <u>2 at 1 mark</u>	[2]
(c)		fold mountains - communications difficulties/isolation, steep slopes difficult for agriculture, housing, low temperatures, high rainfall, thin soils, avalanches.	<u>4 at 1 mark</u>	[4]
		active volcanoes – loss of life, injuries/toxic fumes, destruction of property, loss roads/interference with communications, loss of agricultural land/crops/forests,	<u>4 at 1 mark</u>	[4]
		evacuation.	4 at 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>	2 of 4 mostly	[0]
			3 at 1 mark	[3]
	(ii)	metal cylinder (vacuum), spring contracts/expands - pressure changes, m conveyed to pointer, rotating drum with paper/barograph, trace shown	ax 1 mark	

3 at 1 mark

[3]

trace shown.

		n	N.S.
Page 5	Mark Scheme	Syllabus	.00
	IGCSE – NOV 2003	0460	20
	<ul><li>B - wind speed,</li><li>C - wind direction.</li></ul>	<u>2 at 1 mark</u>	Papa Cambridge . Co
(iv)	high/on roof/pole,		

	(iii)	<b>B</b> - wind speed,		
		<b>C</b> - wind direction.	2 at 1 mark	[2]
			<u>z at i mark</u>	[2]
	(iv)	high/on roof/pole, away from buildings/trees/open area,		
		to record free flow of wind.		
			2 at 1 mark	[2]
(b)	(i)	west coast of continents and continental location,		
( - )	( )	around the two Tropics.		
			2 at 1 mark	[2]
	(ii)	high temperatures,		
		large annual range,		
		large daily range/high day – low night.	2 at 1 mark	[2]
		low rainfall		ı—ı
		low rainfall, infrequent erratic,		
		unreliable,		
		heavy/thunderstorms/concentrated.	0 -4 4	[0]
			2 at 1 mark	[2]
	(iii)	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 at 1 mark	[2]
(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.		
			3 at 1 mark	[3]
(d)	(i)	exfoliation/alternate expansion and contraction/oni	on 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.		
			2 at 1 mark	[2]
	(iii)	Results.		F 4 3
				[1]

				4	2
F	age	6	Mark Scheme	Syllabus	8
			IGCSE – NOV 2003	0460	100
5	(a)	(i)	farmer produces for himself and family, food crops, little or no sales.	2 at 1 mark	W. PahaCan
		(ii)	ploughing - turning soil, making it ready for sowing planting - sowing crops, harvesting - gathering/picking crops/uprooting.	g crops,	
		(iii)	cost of newer methods, tradition/culture, lack of education/understanding/knowledge of new only small plots.	3 at 1 mark ver methods,	[3]
				2 at 1 mark	[2]
		(iv)	farmer does not have to time activities with rainy s given supply of water/reliable, 2 crops/double cropping, extends growing season.	eason,  2 at 1 mark	<u>[2]</u>
		(v)	HYVs/better yielding seeds, up to 2 marks land reform, fertilisers, pesticides, fungicides, max 1 mark modern machinery - e.g. combine harvesters/rice education/training/awareness of new methods, investment, terracing, co-operatives.		<b>741</b>
	/b\	/:\	A for 10 years	4 at 1 mark	[4]
	(6)	(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 feed all its people, food shortages likely to worsen in the developing of the contract of A, B and C	_	
		(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.	2 marks 4 at 1 mark	[4]

[4]

4 at 1 mark

		mm
Page 7	Mark Scheme	Syllabus
	IGCSE – NOV 2003	0460
(iii)	efficient methods, large investment, subsidies, EU/CAP, large-scale production, extensive use of fertilisers, pesticides, machinery,	Syllabus 0460 Ahar ann bhiaga conn

(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] 3 at 1 mark

(v) provide a service, - reserve 1 mark teachers, lawyers, transport workers etc.

> 3 at 1 mark [3]

#### (b) (i) area.

[1]

### (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.

		m	2
Page 8	Mark Scheme	Syllabus	78
	IGCSE – NOV 2003	0460	1330
	research and development - research and development/universities,		W. Papa Cambridge.com
	government support.		COM
	siting factors - science parks - planning, away from congested areas, possibly low cost land areas.		
	3 factors	3 at 1 mark	[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 gree wet rice/cattle ranching - methane.	nhouse gases –	
	wet need datie randing 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,		

(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]



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# **INTERNATIONAL GCSE**

MARK SCHEME

**MAXIMUM MARK: 75** 

SYLLABUS/COMPONENT: 0460/02

**GEOGRAPHY** Extended

					The same
	Page	e 1	Mark Scheme	Syllabus	10
			IGCSE – NOV 2003	0460	123
1	(a)	(i)	birth rate curve – in 1, high constant, remains high in 2, steep fall in 3, low fluctuating in 4.		MMM. Papa Cambridge
			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.	<u>3 at 1 mark</u>	[3]
	(b)	(i)	tradition, religious pressures, desire for son - inheritance, ignorance of large sectors of the population on ne 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 large number of children to look after parents in of high infant mortality - hence large families – fallin polygamy.	ı farms, ıld age,	R./low
		(ii)	underpopulation/underuse of resources, ageing population, increase in dependency ratio		

(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.

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

Page 2	Mark Scheme	Syllabus
	IGCSE – NOV 2003	0460

(iii) may not experience decline in birth rate, may not industrialise, with lower birth rate and death rate.

hus PapaCambridge.com 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,

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,

especially Latin America.

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 -

pollution -

water - waste/garbage in river,

maximum 1 mark

maximum 2 marks

		4	m
Page 3	Mark Scheme	Syllabus	.0
_	IGCSE – NOV 2003	0460	100
	visual, traffic congestion, fire hazard.	<u>7 at 1 mark</u>	MM. PapaCambridge.com.
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, 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.

> 4 at 1 mark [4]

(iii) basic - more fluid/low in silica, acid- viscous/more silica, gentle slopes, steeper slopes, flows quickly, moves slowly/solidifies quickly.

> [3] 3 at 1 mark

	<del>-</del>	
Page 4	Mark Scheme	Syllabus
	IGCSE – NOV 2003	0460

(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,
loss of communications.

Reserve 2 for opportunities
Reserve 2 for problems

Max 1 mark for examples

7 at 1 mark [7]

4 (a) latitude,

pressure systems and associated winds, distance from sea/continentality, altitude, ocean currents, aspect.

4 at 1 mark [4]

**(b) (i)** area of infrequent, low rainfall, hot/tropical location.

<u>2 at 1 mark</u> [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 and continental location, away from maritime influence of onshore winds,

ocean currents -

cold currents offshore,

winds blowing over cold currents.

2 at 2 marks [4]

(c) (i) blown sand/particles,

attacks rocks,

especially effective just above ground level.

2 at 1 mark [2]

wind removes loose particles - sand and dust, blown away.

2 at 1 mark [2]

(ii) A weaker layers in rock outcrop,

eroded - abrasion.

most effective just above ground level - undercutting, resistant rocks eroded more slowly - irregular shapes, water erosion may play a more dominant role than wind erosion.

3 at 1 mark [3]

**B** deflation - sand blown away, hollow created, deflation reaches downwards to water bearing rocks – permeable layer/aquifer.

Page 5	Mark Scheme	Syllabus
g. c	IGCSE – NOV 2003	0460
		<u>3 at 1 mark</u>
(iii	i) exfoliation/alternate expansion and contraction 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/scree, main rock rounded, process accelerated with slight amount of rain. Reserve for results	
ı) (i)	ploughing	<u>J at 1 mark</u>
	wooden plough, buffaloes/oxen/draught anima planting Reservating Reservations Planting Reservation Res	ls, rve 1 mark for each
		6 at 1 mark
(ii)	cost of newer methods, tradition/culture, lack of education/understanding/knowledge of	newer methods,
	small plots.	3 at 1 mark
(iii	<ul> <li>farmer does not have to time activities with rain given supply of water/reliable,</li> <li>crops/double cropping,</li> <li>extends growing season.</li> </ul>	ny season,
	5530 g. 0g 00000111	3 at 1 mark
(b)	Green Revolution, HYVs/better yielding seeds, land reform, fertilisers, pesticides, fungicides, modern machinery - e.g. combine harvesters/r education/training/awareness of new methods.	

investment, terracing, co-operative.

6 at 1 mark [6]

		- · · ·
Page 6	Mark Scheme	Syllabus
	IGCSE – NOV 2003	0460

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

population and food supply have increased,

hus PapaCambridge.com 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] 3 at 1 mark

(ii) overpopulation,

lack of investment/poverty,

outdated methods of production/lack of fertilizer etc,

war,

natural disasters.

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

[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.

6 at 1 mark [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.

6 at 1 mark [6]

		May .
Page 7	Mark Scheme	Syllabus
	IGCSE – NOV 2003	0460
(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, piors	Syllabus 0460 Ahacambhidga com

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]



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**November 2003** 

# **INTERNATIONAL GCSE**

MARK SCHEME

**MAXIMUM MARK: 60** 

SYLLABUS/COMPONENT: 0460/03

GEOGRAPHY Paper 3

			J	44	
Page	1	Mark Scheme		Syllabus	*. O.
		IGCSE – NOV. 2003		0460	Tay
1 (a)	(i)	golf course, club, sport's field, rifle range.	0.14		W. Papa Cambrill
			2 at 1 i	<u>nark</u>	[2]
	(ii)	dam, reservoir.	<u>2 at 1 i</u>		[2]
(b)	(i)	wide tarred road.			
	(ii)	south-west/south-south-west.			
	(iii)	6500-6800.	<u>3 at 1 ı</u>	<u>mark</u>	[3]
(c)		River – Mwenje, Bridge – Footbridge, Railway – cutting.	<u>3 at 1 i</u>	<u>nark</u>	[3]
(d)		flat/gentle slope (lowland = 0), bridge point, road junction (not just 'road'), railway, water supply/wet point, centre cultivated area/estates (plantation/orcha	rd = 0). <u>4 at 1 ı</u>	<u>mark</u>	[4]
(e)	• •	to N/NE, meander/winding, island/braided/eyot, rapids, variable width, many tributaries, gentle gradient/slow flow.	<u>3 at 1 ı</u>	mark_	[3]
		high/mountainous/hilly, cols, steep slopes, ridge, lower land in NW,			

shallow valleys, many tributaries/streams/small rivers/small tributaries/many rivers/much surface drainage, disappearing streams, drainage to N and S/dendritic/radial, highest point 1614m (must include units),

dense bush.

flatter land in NW,

3 at 1 mark [3]

						Wy.
F	age	2	Mark Scheme		Syllabus	8
			IGCSE – NOV. 2003		0460	1
2	(a)		rain gauge, anemometer.	2 at 1	<u>mark</u>	[2]
	(b)	(i)	Stevenson Screen.			[1]
		(ii)	hygrometer/wet and dry bulb thermometer (hydrax. and min. thermometer/six's thermometer, barometer.	romete	r = 0),	
			Only mark first two instruments	<u>2 at 1</u>	<u>mark</u>	[2]
		(iii)	legs/stilts/on a stand, louvres/slatted sides/vents/shutters/slits, painted white, sloping roof.			
			. •	3 at 1	<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		<b>701</b>
						[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)			
			(Note: Sheet to birth rate = 0)			[1]

[2]

[1]

[1]

4 (a)

(b)

(c)

40%/40.

В.

2 correct divisions at 1 each.

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

		Syllabus 0460
Page 4	Mark Scheme	Syllabus
	IGCSE – NOV. 2003	0460
(c)	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,	andhi

(c) near cultivated area, near all weather road, \ only 1 mark for 'along roads' 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]



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# **INTERNATIONAL GCSE**

MARK SCHEME

**MAXIMUM MARK: 60** 

SYLLABUS/COMPONENT: 0460/05

**GEOGRAPHY** Alternative to Coursework

			3	1
Page 1		Mark Scheme	Syllabus	No.
1 (a)	(i)	Student's opinion/biased; not quantitative/figures	<b>0460</b>   s/only	[2]
		subjective words; different times of day	2 at 1 mark	[2]
	(ii)	Differences of profit; frequency of purchase; cost; rail Credit examples to max 1	nge 2 at 1 mark	[2]
(b)		Correct completion of pictogram with Walk = 11 sym Bicycle = 9 symbols; Car = 4 symbols; Bus = 1 symb Taxi = 0	•	
		Mark the number rather than the presentation 1 = 2 correct, 2 = 3 correct, 3 = 4 correct, 4 = 5 corre	4 at 1 mark	[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		[8]
(d)	(i)	e.g. 'How long have you spent shopping in Area -?'	3 at 1 mark - wording questior - options - layout	
		0-2 hours 2-4 hours 4-8	8 hours	
	(ii)	People will spend longer in area A; further from very people live/longer to travel to area; comparison of take longer to shop, etc.  3 at 1 mark, res. 1	goods	[3]
(e)	(i)	Rude/get people upset/annoyed/too personal	1 at 1 mark	
	(ii)	To be aware of the range of people asked/biased sa Should be linked to this investigation	mple 1 at 1 mark	[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	
		20)	4 at 1 mark	[4]
		No explanation or comparison required just description	on	
	(iv)	e.g. Students only asked certain people/biased sa time of the day; day of the week; the weather; stud- own observations	•	
		OWIT ODSCIVATIONS	2 at 1 mark	[2]

**Total 30 marks** 

				3	2	
Pa	ge 2		Mark Scheme	Syllabus	20	
			IGCSE – NOV. 2003	0460	12	
2	(a)		Quick to use; easy/simple to use; easy to total No credit for 'accurate'	2 at 1 mark	[2]	
	(b)		Mark Scheme IGCSE – NOV. 2003 Quick to use; easy/simple to use; easy to total No credit for 'accurate' 2 at 1 mark [2] Pebble placed between open ends of callipers/callipers opened to measure long axis of pebble; the callipers remain/keep the measurement; a ruler is used to measure the open distance of the callipers			
			Credit these details on a diagram	3 at 1 mark	[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 Position change due to flood water bringing material No credit for just 'erosion'		ey [3]	
	(e)	(i)	On graph W: Correct plotting of 4,4,10,2, 0, 0 2 m. On graph Z: Correct plotting of 0, 0, 4,6,6,2	arks for each (	graph [4]	
		(ii)	·	, e.g. different minerals expand/contract; exfoliation; moisture salt weathering; chemical weathering/hydration; freeze/thaw		
			Result, e.g. break down of rock  Credit	4 at 1 mark development	[4]	
	(f)			Pebble shape 5 at 1 mark ax 3 if no data lly use of data		
	(g)	(i)	Greater number produces larger range/different size random selection method; biased student selection; Sampling is the key focus	es/shapes;		
				2 at 1 mark	[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 mark		
			Reserve mark for descriptio	n/explanation	[3]	

**Total 30 marks**