	Pa	ge 1		Mark Scheme	Par Par	per
			IG	CSE – June 2003	32 0	1
					Par Odbacon 2 at 1 man	
1	(a)	(i)	60/61 years,		Sal	
	()	(-)	39/38 years.		TO.	-
			·		2 at 1 man	B.
						90
		(ii)	K birth rate well above	death rate,	`	ai
			f as above but then re	eduction in growth,		
			ncreased death rate/d	•	DD	•
			2 DITUTTALE ADOVE GEA	th rate, then decline/BR similar to	3 at 1 mark	[3]
					<u>5 at 1 mark</u>	[2]
	(b)	(i)	radition,			
	(- /	()	eligious pressures,			
			zeal for son - inheritan	ce,		
				tors of the population on need to r	educe B.R/	
			ow literacy rate/aware			
				family planning policies,		
				ed nature of population, g family planning policies,		
			ack of/unpopularity of			
				s - need children to work on farms,	i	
			arge number of childre	en to look after parents in old age,		
			nigh infant mortality - h	nence large families.		
					4 at 1 mark	[4]
		(::)		_		
		(ii)	prevent overpopulatio avoid increase in depe			
			owering of living stand	<u>. </u>		
			overty,	, and a co,		
			shortages - water/land	,		
			educe risk of			
			greatly increased dem			
			nigh levels of unemplo			
			amine/food shortages nalnutrition,	,		
			decline of infrastructur	e - e a roads		
			nadequate housing/so	-		
			exhaustion of soil,	, ,		
			nadequate educationa	al facilities,		
			ack of health facilities	,		
			oossible civil unrest		1 0 1 1 20 0 21	F 4 3
					4 at 1 mark	[4]
		(iii)	petter medical facilities	S.		
		(,	nore food,	-,		
			mproved diets less ma	alnutrition,		
			nousing improvements			
			mprovements to water			
			more spending on olde	·	roino eta	
			euucauon/awareness (of need to look after the body/exer	tise etc. 4 at 1 mark	[4]
					. at i mark	ניין
	(c)	(i)	5-9 years			[1]
	. ,		•			
		(ii)	depend economically of	on the 15-64 years/working popula	ation.	[1]

Pa	ge 2		Mark Scheme	Pape	er
			IGCSE – June 2003	2.0 <u>01</u>	
	(iii)	larg sm 0-4 cre	pad based pyramid - progressive, ge percentage below 15 years, all population over 65, I narrower than 5-9, edit reference to the shape of the pyramid, credit for references to birth rate/death rate.	3 at 1 mark	[3]
	(iv)	low inc inc inc	rrowing/reduction in youngest age groups – vering of birth rate, rease in over 65s - rease in life expectancy/reduction of death rate, rease in 15-64 year olds - luction in young age groups.	3 at 1 mark	[3]
2 (5)	(:)	CD	Don word out on friend		
2 (a)	(i)	СВ	D or rural-urban fringe.		[1]
	(ii)	pla	d too expensive in CBD, nning control in rural-urban fringe/urban area not gro this far yet.	wn	[1]
	(iii)	dis rov	perstore - 1, trict shopping centre - 2, v of shops - 5, all shops - 8/9.		[1]
	(iv)		e, nere of influence/threshold differences, ler of services - convenience/durable goods.	<u>2 at 1 mark</u>	[2]
	(v)	larq has nea hig	t-of-town/not surrounded by residential areas, ger, s area around store - parking, ar major road junction, her order shop/needs large threshold/sphere of influe om for expansion.	ence,	
				3 at 1 mark	[3]
	(vi)	spa aw pos pos nea	ge area, acious layout/large car parking area, ay from congestion, assibly room to expand, assibly cheaper land, ar road junction - outer ring road and road from CBD, eximity to large residential area.		[0]
				3 at 1 mark	[3]
	(vii)		more main roads, d-iron/rectangular pattern.		[1]
	(viii)	old les	er, s planning in area Z .		[1]

			Mark Scheme IGCSE – June 2003 For each choice: description reason Shortage of land in the CBD limited space, great demand for location in the CBD – shops/offices,
Page 3			Mark Scheme Paper IGCSE – June 2003
			IGCSE – June 2003
	<i>(</i> 1. \		200
	(b)		For each choice:
			description 1+1ms 1
			reason <u>2+2 marks</u>
	(-)	(:)	showtown of land in the CDD
	(c)	(i)	shortage of land in the CBD limited space,
			great demand for location in the CBD –
			shops/offices,
			centre of city – convergence of routes,
			large number of workers,
			rush hours.
			housing shortages large population,
			urbanisation/large numbers of migrants,
			building programmes cannot keep pace with demand.
			traffic congestion
			increase in urban population,
			preference for private transport,
			commuting, rush hours.
			rusii nouis.
			For the chosen problem 2 at 1 mark [2]
			·
		(ii)	shortage of land in the CBD
			encourage activities to locate away from city centre, skyscrapers,
			reclamation,
			urban renewal.
			housing shortages
			build more houses,
			develop new towns/satellite towns, encourage movement away from city.
			encourage movement away nom city.
			traffic congestion
			encourage traffic away from city centres/by-pass roads,
			promote public transport,
			new public transport developments – mass rapid transport systems,
			stagger working hours, urban motorways/freeways,
			encourage out of town parking,
			charges for entry to city centre,
			roundabouts NOT traffic lights.
			Credit reference to actual examples to illustrate MAX. 1 mark
			<u>4 at 1 mark</u> [4]
_	1-1	(:)	material comical by the company of the control of t
3	(a)	(i)	material carried by river – sand, stones, mud etc. [1]
		(ii)	three of:
		\··/	suspension,
			solution,
			saltation,
			traction load.
			<u>3 at 1 mark</u> [3]

	1	Mark Calcare	4	
Page 4		Mark Scheme IGCSE – June 2003	The Pa	per 11
		1000E Valle 2000	day	
	(iii)	loss of energy, insufficient water/small volume, especially during dry season, shallowing of channel/bra inner/convex bank of meander, river enters still water of lake/sea, decrease in velocity, lessening of gradient — below waterfall, river carries more load than it can transport.	AMAN, Pallacal	hbridge.
(b)	(i)	straighten its course.		[1]
, ,	(ii)	Q cliff at A , slip-off slope at B , opposite at R ,		
		symmetrical channel at P .	4 at 1 mark	[4]
	(iii)	outer/concave bank – more volume, greater velocity, more erosion – undercutting, bank collapse – steep slo inner/convex bank – less volume, less velocity, deposition – slip-off slope.	pe.	
			2 at 1 mark	[2]
(c)	(i)	west/NW/WNW.		[1]
	(ii)	2 km.		[1]
	(iii)	three of: waterfall – resistant rock/cap rock, level topped, high, river splits over waterfall, river shallow above waterfall, deposition above the waterfall/islands with vegetation, turbulence, gorge/very steep sides/cliff, gorge meanders, deposited rock fragments – side of gorge, gullies.		
			3 at 1 mark	[3]
	(iv)	interruption of river transport – waterfall, problem of bridging the gorge, road bridge carrying main road from settlement of Victo tourism – hotels, employment, contributed to growth of settlement, hydro-electric power.		101
			3 at 1 mark	[3]

F	Page 5	Mark Scheme Pap				
		IGCSE – June 2003	12.0	01		
(d)	(i)	resistant cap rock, underlying softer rock eroded, eddying/plunge pool, undercutting, by splashback.	3 at 1 mark	mbridge [3]		
	(ii)	unsupported, collapse, retreat leaving gorge	2 at 1 mark	[2]		
4 (a)	(i)	temperatures: high temperatures all year/every month 20° C - 30° C, low annual range 6° C, highest temperature - May 29° C. rainfall: high annual rainfall, highest Dec. 270-280mm,	<u>2 at 1 mark</u>	[2]		
	(ii)	lowest rainfall Feb, May and Sept. about 180 mm, no dry season. A emergents/upper layer, B canopy layer,	2 at 1 mark	[2]		
	(iii)	C lianas, D buttress roots/undergrowth/shrubs. lack of sunlight.	4 at 1 mark	[4] [1]		
	(iv)	three of: tall trees compete for sunlight, little undergrowth – lack of sunlight, heavy rainfall/high temperatures – prolific growth, evergreen – no seasonal rhythm, drip tips/waxy leaves/allow water to flow off quickly, shallow roots – high rainfall – water in top layer of soil.	<u>3 at 1 mark</u>	[3]		
(b)	(i)	14%		[1]		
	(ii)	timber, farming/cattle ranching, roads.	0 at 4			
	(iii)	no – marks for two reasons trees gone, empty fields, pasture overgrown, decline in cattle rearing, farming unprofitable.	2 at 1 mark 2 at 1 mark	[2]		

Dogo 6		Mark Scheme	4. Pon	0.5
Page 6		IGCSE – June 2003	74 Pap	l
			Paga	
(iv)	riv nu no no los lea hig los an	creased run-off, ers – more volume – flooding trient cycle broken/interrupted, roots to absorb nutrients from soil, replacement of nutrients with leaf fall and decay, ss of nutrients to soil, aching by heavy rainfall, gher rate of surface run-off with loss of nutrients, ss of species, imals die – loss of habitats, ay become extinct, rrning – contributes to global warming.	MMM, PapaCann	bridge.
	bu	ining contributes to global warning.	4 at 1 mark	[4]
(c)	for wir pre tou co flo so	b. other natural environments acceptable as well as trest, th economic developments natural areas becoming le eserve the ecosystem, event loss of species – plant and animal, urist potential, ntrol problems – oding, il erosion, obal warming etc.	ess,	F.41
5 (a) (i)	Α	9/8%,	4 at 1 mark	[4]
	В	60%.	2 at 1 mark	[2]
(ii)	mo	more in tertiary, ore in secondary/manufacturing, ss in primary.	<u>3 at 1 mark</u>	[3]
(iii)	y ag X X X	developed countries – Y developing, greater dependence upon agriculture, riculture in X more mechanised, developed manufacturing C19-C20, Y developing mamore developed economies – greater demand for seigreater amount of skill/educated/trained labour force, more capital for investments.	inufacturing, rvices,	[3]
(b) (i)		high constructed by adding components on an access		اما
(b) (i)	inp	hicle constructed by adding components on an asser outs – what goes into assembly components and raw materials, labour etc.	nbly line, 2 at 1 mark	[2]

	Pa	age 7	Mark Scheme	My Pa	per
		- g	IGCSE – June 2003	32	01
		(ii)	A cheaper production/skilled labour.	MMM. PalaCal	1
		. ,	B reduce transport costs.		Bride
			C assembly line/mass production, storage of raw materials, finished vehicles, parking for workers, room for possible expansion.	<u>2 at 1 mark</u>	[2]
			D mass production, some skilled labour - component production, semi-skilled/unskilled - assembly work, office work,		
			transport.	2 at 1 mark	[2]
	(c)	(i)	named example - crop/system.		[1]
		(ii)	for each of three of transport, capital, labour, marke Reserve 1	ts <u>+ 1 + 1 marks</u>	
			additional marks	2 marks	[5]
		(iii)	processes - e.g. sowing, transplanting seedlings etc.	3 at 1 mark	[3]
			n.b. for a general account allow 3 MAX for processes	ONLY	
6	(a)	(i)	20%		[1]
		(ii)	coal.		[1]
		(iii)	less pollution, both are renewable sources of energy.	2 at 1 mark	[2]
		(iv)	A wind not constant, noise.		
			B sun's energy varies,	<u>1 mark</u>	
			difficult to store. allow cost/visual pollution in either A or B	<u>1 mark</u>	[2]
		(v)	high cost, oil/natural gas provide more energy, competition with renewable forms of energy, declining reserves, non renewable, pollution - allow development up to 2 marks		
	<i>(</i> , ,			3 at 1 mark	[3]
	(b)		plentiful supply, transportable –		
			supertankers/pipelines.	2 at 1 mark	[2]

Pa	age 8		Mark Scheme	THE P	Paper
			IGCSE – June 2003	2.0	01
				a de	
(c)		les lar	vantages as pollution than coal, ge reserves of uranium, v running cost.	Reserve 2 marks	Paper 01
		cor Ch rac diff nuc exp cor	ncerns over safety/possible accidents, sernobyl, dio-activity - health problems, ficulty of storing/disposing of nuclear waste, clear power stations take a long time to build, pensive to dismantle, mpetition with renewables.	Reserve 2 marks 1 mark	[5]
(d)	(i)	nai inc em oth div pre imp bet pre tou	med region/country - reference only (no marks to come, aployment directly, her related employment - building, transport etc. versifies economy, esservation of cultural heritage, proved standard of living, atter cultural understanding, esserves natural environment, urist facilities can be used by local people, estige for country.	for name)	[5]
	(ii)	B pediciple development develo	area (allow national parks in general) oublicity, ucation/awareness, anning control, velop nature tours, courage activities which are compatible with nat d watching, jungle trekking, rafting etc. tablish national parks/forest parks etc.	ture – <u>3 at 1 mark</u>	[1]
				3 at 1 mark	[3]

	Pa	age 1		Mark Scheme	The state of the s	Paper
				IGCSE – June 2003	12.0	02
1	(a)	(i)	cor aln var hig	eep rise in population up to 1999, nstant/steady growth, nost trebled 1950-99, ried estimates over the next 50 years, gh estimate will almost double again, y estimate will level out at about 7 billions from 2020		Paper 02 MaCannun [3]
		(ii)	CO1 Y 8	oirth rate well above death rate, ntinues to grow rapidly. as above but then reduction in growth, creased death rate/declining birth rate.	<u>2 at 1 mark</u>	[2]
		(iii)	the	oirth rate above death rate, en decline - lowering of birth rate, asons for low birth rate.	2 at 1 mark	[2]
	(b)	(i)	birt abo ste edo rev Ch sal prio fine dea em fall	reduction in birth rate — th control/contraceptives, ortion, erilisation, ucation about family planning/awareness/advertiser ward examples e.g. ina's one-child policy, lary bonus - 10%, ority in education/health facilities/employment/hous es - 2nd child/annual tax, MAX 1 mark details - one ath rate higher than birth rate in some countries, nancipation of women etc. I in birth rate - ageing population.	ing,	
			bet mo imp hor mo edi inc	fall in death rate – tter medical facilities, ore food, proved diets less malnutrition, using improvements, ore spending on older people, ucation/awareness of need to look after the body/extrease in death rate in some countries - Is etc.,	kercise etc.	
				r each of A and B ditional mark for either	<u>/e 3 + 3 marks</u> <u>1 mark</u>	[7]

					4	
	Pa	ige 2		Mark Scheme	The same	Paper
				IGCSE – June 2003	P.D.	102
		(ii)	inc pre low pov gre hig fan ma dec	erpopulation, rease in dependency ratio, essure on services - electricity/gas/sanitation etc., vering of living standards, verty, eater demand on resources, h levels of unemployment, nine/food shortages, llnutrition, cline of infrastructure - e.g. roads, dequate housing/squatters,	MMM, P.O.	DaCame
			exh low lac	ortages - water/land, naustion of soil, vering of educational facilities, k of health facilities, ssible civil unrest etc.	<u>5 at 1 mark</u>	[5]
	(c)		larç sm	pad/wide based pyramid - progressive, ge percentage below 15 years, all population over 65,		
			refe hig	·	erve 2 marks	
			low	h birth rate, / life expectancy/high death rate, /ering of birth rate.		
				Rese	erve 2 marks	
				X reference to reasons for high BR and high DR ditional marks	<u>1 mark</u> 2 marks	[6]
2	(a)	(i)	spa awa pos pos nea	arge area, acious layout/large car parking area, ay from congestion, ssibly room to expand, ssibly cheaper land, ar road junction - outer ring road and road from CBD, eximity to large residential area.	,	
			Į	yg	4 at 1 mark	[4]
			in Î	unction of roads, arge residential area, ay from CBD.	3 at 1 mark	[3]
		(ii)	sm few nee	ore local stores - convenience goods, all sphere of influence/low threshold, over district shopping centres - competition, ed larger threshold, ost of local shops - in older residential areas.	3 at 1 mark	[3]
					<u>Jai i Illaik</u>	[၁]

Page 3		Mark Scheme	The state of the s	Paper	
		IGCSE – June 2003	2.0	02	
(iii)	gri	ea Z older, id-iron/rectangular layout, ss planning.	<u>2 at 1 mark</u>	DaCambr.	dige com
(b)	rea ade	escription/location asons Iditional mark or each choice	Reserve 1 mark Reserve 2 marks 1 mark 4 + 4 marks	[4]	OH
(c)	pro pre for cre tow	prevent urban sprawl, otect agricultural land, ovide open space around town/city - recreation, event joining up of neighbouring towns/cities, mation of conurbations, edit reference made to measures such as green wns/cities in developing countries - prevent developing countries credit for examples.			
		,	<u>5 at 1 mark</u>	[5]	
3 (a) (i)	sus sol sal tra	escription of – spension, lution, Itation, action load. names only without description	<u>1 mark</u> 4 at 1 mark	[4]	
(ii)	ins esp sha inn rive dee les bel	ss of energy, sufficient water/small volume, pecially during dry season, allowing of channel/braiding, ner/convex bank of meander, er enters still water of lake/sea, ecrease in velocity, ssening of gradient — elow waterfall. er carries more load than it can transport,	<u>4 at 1 mark</u>	[4]	
(b) (i)	lev hig rive rive de tur rap goi de	aterfall - resistant rock/cap rock, yel topped, gh, er splits over waterfall, er shallow above waterfall, eposition above the waterfall/islands with vegetate bulence, pids, erge/very steep sides/cliff, erge meanders, eposited rock fragments - side of gorge, ellies.	tion, <u>6 at 1 mark</u>	[6]	

			4	
Pa	age 4	Mark Scheme IGCSE – June 2003	Why.	Paper
		IGCSE – Julie 2003	.43	NZ .
		interruption of river transport - waterfall, problem of bridging the gorge, road bridge carrying main road from settlement of Viotourism - hotels, employment, contributed to growth of settlement, hydro-electric power.	ctoria Falls,	Paper 02 08Cannonidae.com
		Trydro-electric power.	<u>5 at 1 mark</u>	[5]
(c)		resistant cap rock, underlying softer rock eroded, eddying/plunge pool, undercutting, erosopnal processes MAX <u>1 mark</u> by splashback, unsupported, collapse, retreat leaving gorge.		
			6 at 1 mark	[6]
4 (a)	(i)	high temperatures all year/every month 20° C - 30° C low annual range 6° C, highest temperature - April 29° C, high annual rainfall, highest Dec. 270-280 mm, lowest rainfall Feb, May and Sept. about 180 mm, no dry season.	·,	
			4 at 1 mark	[4]
		emergents 40-45m, canopy layer 30m +, crowns interlock, lianas, epiphytes attached to branches/trunks, tall trees, straight trunks, first storey 15-20m, bark smooth, little leaf litter/undergrowth, trees close together, buttress roots, ferns, herbs and low growing plants, fungi, trees have broad leaves, drip tips, waxy/leathery leaves, shallow roots, evergreen forest.	<u>5 at 1 mark</u>	[5]
		tall trees compete for sunlight, little undergrowth - lack of sunlight, heavy rainfall/high temperatures - prolific growth, evergreen - no seasonal rhythm, drip tips/waxy leaves/allow water to flow off quickly,	<u>o ar r mane</u>	[6]
		shallow roots - high rainfall - water in top layer of soil	<u>4 at 1 mark</u>	[4]

	Page 5		Mark Scheme	34	Paper
			IGCSE – June 2003	2.0	02
(b) (i)	14° em pa: de	oss of forest, % Amazonia last 10 years, usable timber trees gone, apty fields, sture overgrown, cline in cattle rearing, ming unprofitable.	MMM. P.O.	Oac ambri
				3 at 1 mark	[3]
		inco inco rive nut no no los lea hig los	ess interception, ore percolation, creases flow into rivers by throughflow, creased run-off, ers - more volume – flooding, trient cycle broken/interrupted, roots to absorb nutrients from soil, replacement of nutrients with leaf fall and decay, s of nutrients to soil, iching by heavy rainfall, ther rate of surface run-off with loss of nutrients, s of species, imals die - loss of habitats, may become extinct, reing - contributes to global warming		
		bul	rning - contributes to global warming.	4 at 1 mark	[4]
	(::)	1			[4]
	(ii)	for with present to the control of t	o. other natural environments acceptable as well as trest. h economic developments becoming less, eserve the ecosystem, event loss of species - plant and animal, urist potential, entrol problems - coding, il erosion, esertification, esertification, ebal warming etc.	5 at 1 mark	[5]
5 (a))	X 0 agr X 0 X 1 X 2	greater dependence upon agriculture, developed countries, Y developing countries, riculture in X more mechanised, developed manufacturing C19-C20, Y developing manufacturing C19-c20, Y developing manufacturing capater demand for server amount of skill/educated/trained labour force, more capital for investments.	nufacturing, vices,	
				5 at 1 mark	[5]

<u>5 at 1 mark</u>

[5]

	Pa	ige 6		Mark Scheme	The same	Paper
				IGCSE – June 2003	2.7	102
	(b)			our - large labour force required, embly line,		Paper 02 ADACAMBIA
			skil	led/semi-skilled,		7
				nponents - large number,		
				tral location - assembling from many subsidiary fact materials - availability of sheet steel etc,	ories,	`
				ng factors - large area –		
			-	e factory, storage, parking,		
				el land, ital - large-scale production,		
			-	ory,		
				chase/storage large quantities of components/raw m	naterials,	
			-	e labour force – salaries, nsport -		
			brin	ging components,		
				icles - markets, embling of large number of workers,		
				rkets -		
				ne/regional,		
				ort details. ned location	1 mark	
				each of 4+ factors	9 at 1 mark	[10]
	(-)			dit anno a constitute if aircan DEO and MAY 4 are		
	(c)			dit crop names/locations if given, RES and MAX <u>1 m</u> each of natural inputs, human inputs, outputs/marke		
			pro	cesses, capital. Reserve 2 +	- 2 + 2 marks	
			cro	os/outputs <u>N</u>	MAX 3 marks	[10]
6	(a)	(i)	cos	t,		
	` ,	•	con	cerns over safety/radio-activity,		
				culty of storing/disposing of nuclear waste, lear power stations take a long time to build,		
				ensive to dismantle,		
				ted life of power stations,		
			con	npetition with renewables.	4 at 1 mark	[4]
		(ii)		line in reserves, npetition with oil/natural gas,		
				npetition with alternative sources of energy,		
			_	n cost,		
			poli	ution - if developed up to <u>2 marks.</u>	<u>5 at 1 mark</u>	[5]
					<u>o ac i manc</u>	[0]
		(iii)		ewable, e pollution,		
				er running costs,		
			-	roved technology,		
				urity of supply - countries do not rely on others, ne units small scale serve local areas - cut down on		
			trar	sport costs,		
				rt construction times,		
			cou	ntries may cut down on costly oil imports.	4 at 1 mark	Γ Δ1

[4]

4 at 1 mark

Pa	age 7		Mark Scheme	7	Paper
			IGCSE – June 2003	2	02
(b)	(i)		med natural area tural attractions	<u>1 mark</u> 3 at 1 mark	Paper 02 RHAC RHAD (ANN)
		oth	ner reasons e.g. accessibility	MAX 2 marks	[4]
			,		
	(ii)	he	lp control: loss of natural landscape, natural attracti	ions of area,	
				up to 2 marks	
		pre	event over-development of infrastructure - roads, ai	rports, hotels	
		etc	· ,	up to 2 marks	
		cut	t loss of natural habitats,		
		che	eck pollution	up to 2 marks	
		ge	neral benefits e.g. employment	MAX 2 marks	
				<u>4 at 1 mark</u>	[4]
	(iii)	ed pla de en bir	blicity, ucation/awareness, anning control, velop nature tours, courage activities which are compatible with nature d watching, jungle trekking, rafting etc. tablish national parks/forest parks etc.) —	
			•	4 4 4 1	

[4]

4 at 1 mark

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Page 1	Mark Scheme	Paper
	IGCSE – June 2003	2 03
		apac

	(-)	/:\	(t-t-) -#:		To large	3
1	(a)	(i)	(estate) office.			Mon
		(ii)	187376 or 186376.	(Reversed or wrong square	are = 0)	ambrig
	(b)	(i)	north-east.			= 1
		(ii)	2650 – 2800.			= 1
	(c)		forest, low forest/woodland, scrub, palms.		4 at 1	= 4
	(d)		banana and coconut.			= 1
	(e)		forest, narrow/deep valleys, highland/hilly/mountains, steep slopes, no flat land/all slopes/lack of flat, no/lack of roads/few, scrub/low forest/woodland.		4 at 1	= 4
	(f)		hospital/health, school/education, church/religion, post (office), police (station)/law, cemetery, public works department, water.	2 services = 1 mark	3 at 1	= 3
	(g)		mud/sand/beach, peninsula/point/headland, bay/cove, island/stack, cliffs, river mouth, wave cut platform, blow hole, (extract from place names).		4 at 1	= 4
2	(a)		P – mercury/alcohol, Q – muslin/gauze, R – wick/string/cord, S – water/reservoir/jar/bottle.	2 correct for 1 mark	2 at 1	= 2
	(b)		4°C,		= 1	
	` '					
			dry bulb temp. minus wet bulb (temp)/25(°C) minus 21(°C).		= 1	= 2
	(c)		70%.			= 1

	Р	age 2		Mark Scheme IGCSE – June 20	003	The way	Paper 03
	(d)		expr	unt of water (vapour) in air essed (as a %) of what the air d hold (at a given temperature).	,	WWW. Pak	PaCambrid
3	(a)		A = 4 B = 7			2 at 1	= 2
	(b)	(i)	even	oirth rate low death rate, shaped pyramid, young many old.			= 1
		(ii)	wide man	birth rate high death rate, base narrow top, y young few old, ressive.			= 1
	(c)		deat	e 1/Stage 4, h rate higher than birth rate, e die than are born.	Stage and	reason	= 1
	(d)			est difference between birth and h rate.	Both a	nswers	= 1
4	(a)		2 co	rrectly positioned lines.		2 at 1	= 2
	(b)		70(%	(o).			= 1
	(c)		В			= 1	
			less	e primary/high, secondary/few/smaller, tertiary/few.	2 :	at 1 = 2	= 3
5	(a)			rged in size/more buildings/added g stables.			= 1
	(b)		comi	muters.			= 1
	(c)		-	office,	(2 services for 1 mark)	0 4	
	(d)		bus s	g stables,		2 x 1	= 2
	, ,			nurant,		3 at 1	= 3
6	(a)	(i)		on/part of earth's crust/surface part of earth floating on mantle.			= 1
		(ii)		ca, h American, rctic.	Any 2		= 1

F					4	
	Pa	age 3		Mark Scheme	Pap	er
		(iii)		ng apart/diverging arating/spreading.	Tapac.	er 3 3 3 3 4 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7
	(b)	(i)	epice	entre.	•	Tide
		(ii)		itest intensity/nearest entre/above origin.	2 at 1	= 2 · COM
		(iii)	flood tidal brea dama lands	oly/damage,	2 at 1	= 2
7	(a)			ass/motorway, er) ring road.	2 at 1	= 2
	(b)		bus I	lanes.		= 1
	(c)		park limite pede (inne multi	t/electric) railway/trains, and ride, ed access/no private cars, estrianised streets, er) ring road, i-storey, parks.	4 at 1	= 4

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				, Og	
1	(a)		Name of student/group; date; time; weather; site number/location of recording	3 at 1 mark	Cambrid
	(b)		e.g. SW Path and NE Path becomes narrower overall; (1.9 - 0.3m) (1.9 - 0.2) - no comparison required	2 at 1 mark	[2]
	(c)	(i)	Detailed discussion/comparison based on site distance from Information Centre with reference to both paths; comment on the changes	Single point marking Res mark for across site/distance from IC.	
		/** \	across the path	Max 4 if no data	[6]
		(ii)	Unrepresentative site location; student inaccuracy in measuring/recognising bare ground; location of the centre of the path; no relief detail known	2 at 1 mark	[2]
	(d)	(i)	The number of visitors will change during the day; to gain a representative sample	1 at 1 mark	[1]
		(ii)	Tally counts	1 at 1 mark	[1]
		(iii)	400 m; total result highest at 400 m; over 400 m numbers rapidly decline	3 at 1 mark res 1 mark for distance credit data	[3]
	(e)	(i)	Trampling by feet; reduction in growth; removal of vegetation/plants/roots; roots no longer hold the soil together; susceptible to soil erosion by wind and water	5 at 1 mark	[5]
		(ii)	Information Centre – 400 m SW centre of path; use alternative routes to let plants recover; fence off area; put down wooden boards/tarmac	3 at 1 mark res 1 mark for suggestion	[3]
	(f)		At each 200 m site; design recording sheet; design environmental survey with scoring system; plenty of litter = high score/little little – low score	4 at 1 mark res 1 mark for location of survey	[4]

Mark Scheme IGCSE – June 2003

Page 1

Total 30 marks

Paper 05

			9	000
(a)	(i)	The order of settlement;	1 mark	Calm
	(ii)	No of services/traffic volume increases/decreases; Population increases; area increases	3 at 1 mark res 1 mark des/exp	daCambrio
(b)	(i)	Data which the candidate did not collect/not primary first-hand collected data but collected by someone else e.g. map/census/weather station data	1 mark definition 1 mark example	[2]
	(ii)	e.g. Settlement A has basic services of Church, Postal Agency, School; Settlement B and C have different services in addition to the basic services	2 at 1 mark	[2]
(c)	(i)	Correct plotting of data on scattergraph: A = 4, 38 B = 7, 76 C = 14, 210	3 at 1 mark for correct plotting	[3]
	(ii)	As transparency best fit Line	2 marks if accurate 1 mark if within 2 mm	[2]
(d)	(i)	Appropriate route way; appropriate extent of settlement	2 marks for each settlement type Max 1 if no diagram	[4]
	(ii)	Not to miss traffic; reference to linear or nucleated settlement patterns	1 mark for simple credit development	[2]
	(iii)	Different day; different time; different weather; representative sample/true picture/accurate/different traffic volume	2 at 1 mark res 1 mark for when and 1 mark for why	[2]
(e)		Correct construction and completion of bar graph Axis number/divisions; labelling of both axes; Title appropriate; correct bars (i.e. 2, 10, 56);	5 at 1 mark	[5]
(f)		Hypothesis true/correct; Comment in support using both traffic and services data concerning Settlements A, B and C focusing on the size of settlements and the number of services not type	4 at 1 mark res 1 mark for decision res 1 mark for traffic and services comment Max 3 mark if no ref to data	[4]

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2

Total 30 marks

Paper 05

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

Grade threshold	l s taken for Sylla	abus 0460 (Geo	graphy) in the J	une 2003 exam	nination https://www.ps	paCambridge.co
	maximum	m	ninimum mark re	equired for grad	e:	100
	mark available	Α	С	E	F	, G
Component 1	75		39	30	20	
Component 2	75	50	28	17		Ì
Component 3	60	46	35	27	22	
Component 5	60	43	33	19	15	

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.