

CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the June 2002 question papers

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

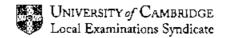
These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking 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 June 2002 question papers for most IGCSE and GCE Advanced Level syllabuses.



GEOGRAPHY (0460)

PAPER 1

1	(a)	(i)		1 mark each	[2]
		(ii)	the higher the population density small farms.	the higher the proportion of	[1]
		(iii)	population area or statement population	ation divided by area.	[2]
	(b)	(i)	when the population of an area caresources. people decide to move themselves	,	[2]
		(ii)	high population densities in parts overcultivation, 65% population live on 7% land a rural population - insufficient food	rea,	[2]
		(iii)	high population density / Over 909 live in Java & Bali, outer islands less populated, low population density.	% of population of Indonesia	[2]
	(c)		high birth rate with reasons, death rate declining rural -urban migration, push factors - small unproductive farms, increased debts / moneylenders, decreasing fertility, lack of employment, natural disasters, limited educational health facilities, few social facilities, pull factors - wide range of jobs, regular wages, better medical facilities, schools / colleges, entertainment & leisure,	max 2 marks max 1 mark 6 at 1 mark	[6]
	(d)	(i)	overpopulation / overcrowding, insufficient housing, squatter settlements, transport congestion, unemployment, lack of health facilities / hospitals,		

			water supply problems / other services e.g. electricity, lack of sanitation, shortage of schools / educational facilities, pollution. social problems, max 1 mark 5 at 1 mark		[5]
		(ii)	cost, numbers involved, difficulties of providing - housing, policing difficulties, problems of enforcing pollution of	max 2 marks	[3]
2	(a)	(i) (ii)	around the CBD. A NE / N, B S / SE of river / CBD, outskirts / periphery	max 1 mark for A& Btogether 2 at 1 mark	[1] [2]
		(iii)	place where people live out of tow		[1]
		(iv)	A communications, ? along roads, outskirts- ? cheaper land, away from original settlement, but close to housing areas - labor ? flat land.	ur,	
			B new residential areas, well away from town centre, large residential area - customers	3 at 1 mark s. 2 at 1 mark	[3] [2]
	(b)	(i)	benefits - work in the city, higher order shops, services in the city - theatres etc., easy route to work, quick.	<u>4 at 1 mark</u>	[4]
		(ii)	rapid growth, residential areas, road links,		

new services develop in the town to serve the people, industry attracted here -? cheaper land than London, may cause some services to decline in the town - competition.

4 at 1 mark

(c) (i) main shopping centre,

main concentration of offices,

route focus.

high land values,

3D character / tall buildings,

large number of commuters,

large variety of shops -

higher order outlets,

low residential population,

groupings of goods & service outlets,

specialised shops.

traffic congestion,

especially rush hours,

shortage of building land,

high cost of building land,

pollution.

shortage of open spaces / green areas,

few residents -

'dead heart' at night.

4 at 1 mark

(ii) e.g. of problem - traffic congestion.

named problem -

1 mark

other problems - 'dead heart' - lack of activities after workers left,

low residential population,

need for urban renewal,

need for extra space,

pollution.

need to preserve old / historical buildings,

lack of open spaces.

attempts to deal with problem - e.g. traffic congestion

build new roads.

widen roads.

restrict access for traffic,

higher costs of parking,

persuade workers to work staggered shifts.

improved public transport,

decentralisation of commercial functions,

encourage more people to live in CBD - building of homes.

3 at 1 mark

[4]

[4]

[4]

3	(a)	(i)	0.7 mm - 1mm, sand.	2 at 1 mark	[2]
		(ii)	A the faster the speed the larger B the faster the speed the type of to stones.		[2]
		(iii)	traction, saltation, suspension, solution, allow description e.g. rolling for tra	action, bouncing for saltation. 3 at 1 mark	[3]
	(b)	(i)	4 features	4 at 1 mark	[4]
		(ii)	steep sides, steep backwall, hollow floor / arm,chair shaped, scree, ? lake.	3 at 1 mark	(21
		(iii)	softer rock, ice flowing more quickly as it pass slope, extra ice from tributary valley glacic more erosion - hollows floor, abrasion, plucking, deposition of moraine, water trapped behind terminal more	er, oraine.	[3]
		(iv)	freeze-thaw / frost action, rain collects in cracks / joints, temperature falls at night, water freezes - expands, stress on cracks / joints, joints opened, melting - day - more water enters repetition.		[3]
		(v)	ridge / mound, crosses valley / towland area, steep sided. mixed deposit - large stones - fine	1 mark clay.	
				1 mark	[2]

		(vi)	material carried by valley glacier, deposited when ice melted.	2 at 1 mark	[2]
4 (a)		(i)	W maximum-minimum thermom X wet-dry bulb thermometer / hy Y barometer.	•	
			i barometer.	3 at 1 mark	[3]
		(ii)	A 6° C (2 - 8° C), B 1010 mb - 1012 mb, C 14mm.	3.at 1 mark	[3]
		(iii)	dry bulb temperature,) wet bulb temperature,) difference, use humidity tables,)	1 mark 1 mark	
			read the %age.	1 mark any2 at 1 mark	[2]
	(b)	(i)	funnel, container, jar / flask, measuring cylinder, funnel rim 30cm above ground.		to
				3 at 1 mark	[3]
		(ii)	water collects in glass jar, emptied into tapered glass meas scale on cylinder in mm, tapered end allows small amoun- read once every 24hrs.,		
			Todd Ondo Ordry Zamo.,	2 at 1 mark	[2]
		(iii)	S open location / on grass / away fr P, Q too close to building. R sheltered by trees / not open p		[4]
	(c)	(i)	hot / warm summer, mild / warm / cool winter, moderate mean annual temperate large annual range 18° C, dry summer, wet winter.		•
				3 at 1 mark	[3]

		(ii)	different insolation rates through lower angle of sun's rays - winter higher position of sun - summer sea influence in raising winter to dry trade winds / offshore winds onshore / westerly winds in winter relief & cyclonic rainfall in winter	er, r, emperature, s in summer, der,	[2]
	(d)		evergreen woodland, large trees - cedar, pine evergre low evergreen shrubs / maquis, leathery leaves / waxy leaves, spiny leaves / hairy leaves, thick bark, long roots obtain supplies of uni bulbous roots store food & mois	derground water,	
				3 at 1 mark	[3]
5	(a)		inputs - factors) accept exar ouputs - products.)	•	ros
				2 at 1 mark	[2]
	(b)	(i)	centre		[1]
		(ii)	assembles / puts together comp	ponents	[2]
		(iii)	3 components each at	1 mark	[3]
		(iv)	save on transport costs		[2]
		(v)	large factory - assembly line, large land - storage, parking of workers cars, parking of finished cars.		
				3 at 1 mark	[3]
		(vi)	bringing large number of compormovement of finished products transport of workers.	_ ·	
			nanaport of mothers.	2 at 1 mark	[2]

	(VII)	many processes / assembly line large output, for labour to pay for factory, machinery, components.	1_mark	
		for capital	1 mark 2 at 1 mark	[2]
(c)	(i)	smoke / gases, solid waste materials - examples liquid waste.	S,	
			2.at 1 mark	[2]
	(ii)	air pollution - affects quality of air take up land, affect river quality, health problems,)		
		CO2 - acid rain,) max for each global warming.)	n <u>2 marks</u>	
		5 ,	4 at 1 mark	[4]
	(iii)	improvements in industrial proce treatment, filtration, cleaning, burial of waste, legislation.	esses - less waste,	
			2 at 1 mark	[2]
(a)	(i)	providing for the farmer and famil little or no surplus for sale.		(01
			2 at 1 mark	[2]
	(ii)	bush fallowing / shifting cultivatio clearance of forest, burning, planting - holes - digging stick, weeding, harvesting.		
			4 at 1 mark	[4]
	(iii)	food crops - root crops, bananas, sugar, vegetables,		
		coconuts. other output - cattle products.	2 at 1 mark 1 mark	[3]

	(iv)	soil fertility declines, allow natural vegetation to grow, soil is replenished.	2 at 1 mark	[2]
(b)	(i)	loss of nuts, coconuts, fruit, loss of land - gardens, no trees to burn - ash - fertilisers, no protection for soil, loss of material for tools for farmin		[3]
	(ii)	loss of water supply, rivers become silted / unclean, loss of transport, loss of fish.	2 at 1 mark	[2]
(c)	(i)	area		[1]
	(ii)	factors	3 at 1 mark	[3]
	(iii)	processes	3 at 1 mark	[3]
	n.b.	if system / location not specified if for each of (ii) & (iii)	n (i) - max 1 + 1 mark	
	(iv)	outputs	2 at 1 mark	[2]