MARK SCHEME for the October/November 2012 series

0460 GEOGRAPHY

0460/13

Paper 1, maximum raw mark 75

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2			Mark Scheme	Syllabus	Paper
				IGCSE – October/November 2012	0460	13
1	(a)	(i)	Ban	gladesh		
			1 ma	ark		[1]
		(ii)	24.7 15.5	– 9.2/birth rate – death rate;		
			NB \	Norking is required, along with correct answer for be	oth marks	
			2@	1 mark		[2]
	(111)	Lack Not e Can' Need Need Have Have Marr Won High etc N.B:	s such as in Pakistan there is: c of availability of contraception/family planning; educated re contraception/family planning; 't afford contraception/family planning; d children to work on the land; d children to send out to earn money; d children to look after parents in old age; e large families due to tradition/importance of having e large families due to religious influences; ry younger/have children at younger age; nen in Australia want a career first/material possess infant mortality rate so have more children in the h	ions; ope some will sur	
			No d	louble credit for education.		
			3@	1 mark		[3]
	(iv)	peop lack inad can't poor hosp over traffi atmo inad over defo	s such as: ole do not have enough fuelwood/oil or named exam of work/high unemployment/not enough jobs; equate food supplies/can't grow enough crops; t afford to import food; access to education/overcrowded classes; access to health care/high doctor-patient ratio/not bitals/doctors/hospital beds/clinics/medicines; crowded housing/lack of housing/growth of shanty to c congestion; bspheric pollution/water pollution/increased waste/life equate water supply/sanitation; use of agricultural land/overgrazing/lack of farmland restation/loss of natural vegetation; ad of disease/increased health issues or named examples.	enough owns; tter; t;	
			4@	1 mark		[4

Pag	je 3	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2012	0460	13
(b)	one one aro	astal areas/near coast/near ocean; in south/in Los Angeles San Diego area; in central part/ in San Francisco area; und main cities/near to San Francisco, L.A. and San go/names all 3 cities;	Diego/between L	.A. and San
	3 @) 1 mark		[3]
(coa whi in t as are as roa agr are	as such as: stal areas for trade; ere ports have been established (dev); ays; t is sheltered/protected from storms (dev); as of flatter land/mainly below 600 metres/low land; building is easier on flatter land (dev); d/rail/transport communications are easier/cheaper t icultural production is easier on flatter land (dev); as with over 250 mm precipitation/high rainfall; ere water supply is easier for domestic use/agricultur		areas (dev);
	5 @) 1 mark or development		[5]
(c)	Levels	narking		
	Level 1	(1–3 marks)		
		ents including limited detail which suggest reasons fo pull factors.	or international mig	gration can be
<u> </u>	Level 2	(4–6 marks)		
		amed example eveloped statements which explain reasons for interr actors.	national migration.	Can be push
!	Level 3	(7 marks)		
	Compre	amed example (eg Turkey to Germany). hensive and accurate statements including some pla both push and pull factors.	ace specific refer	ence. Must
	Employ Service Food S Conflict Climatic Natural	s upplies		
	etc. Place s	pecific detail could include names of areas/places wi	thin selected cour	ntries. [7]
				[Total 25]
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Page 4			Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	13
(a)	(i)	Cen	tral Business District		
		1 m	ark		[1]
	(ii)	Evid Ped High Lots	mark) lence for 2 nd mark such as: estrianised area; n order services/examples e.g. shops/commercial; of people; nly 3 storey buildings;		
		2@	1 mark		[2]
	(iii)	А – В –	hods such as: Trams/trains mean people do not take their private urban areas/can carry more people than a car/ease Park and Ride means cars do not have to enter CB than a car/people have to use bus/leave cars outsic traffic free zone/people have to walk/cars are not al	es traffic jams; D/bus can carry r le CBD;	nore people
		3@	1		[3]
	(iv)	traff long more cong was redu redu	is such as: ic congestion wastes peoples' time; er journey to work/school; e chance of accidents/reduces danger; gestion leads to stress/road rage; ted fuel; ices atmospheric pollution; ices noise pollution; iced cost for businesses delivering goods;		
			Candidates can refer to benefits of reduction or pro ongestion wastes time.	blems e.g. reduc	es time wasted
		4@	1		[4]
(b)	(i)	peop man inad deliv peop only not a	re are many residential areas surrounding the CBD/ ple need to travel to CBD for work/school/shops/bus by roads lead to this area; lequate/narrow roads/incomplete ring road; very vehicles will cause congestion; ple parking will cause congestion; one road bridge over river; all areas are covered by a railway line/no station in C medral traffic;	iness;	vhere lots of people l

3 @ 1 mark

[3]

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(ii) No mark for choice of option.

Marks to be awarded for reasoning. E.g. Option 1: Restricting the number of vehicles will result in less hold ups; as roads will be able to cope with smaller numbers; preventing lorries in town centre will stop roads being blocked; as narrow roads are not designed for large vehicles; Rejected B as people will still take their cars if they are allowed to even if public transportis improved; as it is more convenient/quicker than public transport (dev) Rejected C as ring road will not solve congestion caused By people going to CBD; As it only diverts away through traffic (dev).

E.g. Option 2:
Providing more buses/trains; means there will be less traffic on the roads (dev);
So there will be less hold ups (dev);
Roads will cope with smaller numbers of cars;
Bus lanes can be given priority;
So people will be on time for work (dev);
Extending the railway line to all surrounding areas;
Will serve more people so less cars (dev);

E.g. Option 3: Building a ring road around the city will eliminate through traffic; So there will be less cars on the road (dev); e.g. people travelling from Malvern to Abergavenny won't have to travel through the city (dev);

5 @ 1 mark or development

(c) Levels marking

Level 1 (1–3 marks) Statements including limited detail on attempts to solve problem of inadequate housing.

<u>Level 2</u> (4–6 marks) Uses named example (must be smaller than a country).

More developed statements on attempts to solve problem of inadequate housing.

Level 3 (7 marks)

Uses named example (eg Rio de Janeiro). Developed references to attempts to solve problems of inadequate housing including some place specific reference.

Candidates may refer to ideas such as: Building materials Housing developments Relocation New towns/cities Infrastructure etc

[7]

[5]

[Total 25 marks]

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Page 6			Syllabus	Paper
		IGCSE – October/November 2012	0460	13
8 (a) (i)	Spe	ed (of flow of the river)		
	1 ma	ark		[1]
(ii)		particles eroded/erosion/saltation/suspension/partic sported/transport/attrition/hydraulic action/abrasion;	les	
	В. р	articles deposited/deposition/particles dropped;		
	2@	1 mark		[2]
(iii)	corra	raulic action; asion/abrasion; osion ion.		
	3@	1 mark		[3]
(iv)		erials being picked up by water and bounced along t tation);	the bed/series of I	nops
	Mate Mate the v	erials dissolved in the water (Solution)/chemicals derials dissolved in the water (Solution)/chemicals derials carried within the water (Suspension)/without vater; water; erials being pushed/rolled along bed (traction);		
	4@	1 mark		[4]
(b) (i)	stee gent deep shal depo	tures should be evident from photographic evidence p outer bank/river cliff; le inner bank/slip off slope/river beach; o water on outside; low water on inside; posited materials/pebbles on inside; pank is eroded;	e. Ideas such as:	
	3@	1 mark		[3]
(ii)	Wate Late Eroc Dee Und Colla Wate Lose	s such as: er flows quickly round outer bend; ral erosion; les outer banks/bed; pens channel; ercuts bank; apse of bank to produce steep slope (dev); er flows slowly round inner bend; es energy and deposits load (dev); ates slip off slope (dev);		
		1 mark or development		[5]

Page 7	Mark Scheme	Syllabus	Paper
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(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing the impacts of a river flood.

Level 2 (4-6 marks)

Uses named example More developed statements describing the impacts of a river flood.

Level 3 (7 marks)

Uses named example (eg Limpopo in Mozambique). Comprehensive and accurate statements describing the impacts of a river flood, including some place specific reference.

Candidates may refer to ideas such as: Deaths Housing Farmland Food Services Soil Fertility Transport etc.

Place specific detail can include names of features/areas/date/statistics within the selected case study. [7]

[Total: 25]

	Page 8		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	13
4	(a) (i)	60			
		N.B:	allow tolerance of +/- 5		
		1 ma	ark		[1]
	(ii)		00 000 – 1 million; 0 000 – 499 000		
		2@	1 mark		[2]
	(iii)	defo furni man exple pres lack	s such as: restation is a source of wealth/income/trees used fo ture/building/construction; y areas are too large to patrol; oitation by multinationals/MEDC's; sure on resources/land/for plantations (burning fore of government legislation/weak government control d trees for cooking/fuel/charcoal; etc	st);	ent;
		3@	1 mark		[3]
	(iv)	Rub Colle Rest Log Repl affor Ecot Cons Crea Helil	s such as: ber tapping; ecting fruits/nuts; trict logging; one species rather than clear cutting/selective loggi lace every tree chopped down by planting a new on restation; tourism; servation areas; ation of tribal reserves; logging; all scale hunting by indigenous tribes;		noved/re-
		etc			
		4@	1 mark		[4]
	(b) (i)	less less less	s such as: oxygen; precipitation/moisture in air; evapotranspiration/evaporation/transpiration; e carbon dioxide;		
		3@	1 mark		[3]

Page 9	Mark Scheme	Syllabus	Paper
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(ii) Ideas such as:

there will be less interception/protection by vegetation; so rain falls directly on to the ground (dev); therefore soils will be less well drained (dev); compaction of topsoil occurs; therefore less infiltration/water flows overland (dev); soil erosion may occur; as soil is not held together by roots (dev); soil settles on river bed/displaces water; lag time is short; less trees to absorb water via roots; etc.

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing and/or explaining the main features of tropical rainforest climates.

Level 2 (4–6 marks)

Uses named example More developed statements describing and/or explaining the main features of tropical rainforest climates. Level 3 (7 marks)

Uses named example (eg Amazon Rainforest). Comprehensive and accurate statements describing and/or explaining the main features of rainforest climates, including some place specific reference.

Candidates may refer to ideas such as: Temperature Precipitation Convection Evapotranspiration Condensation Ascending air etc.

Place Specific reference can be names of settlements/rivers/features within the selected area. [7]

[Total: 25]

	Page 10)	Mark Scheme	Syllabus	Paper
				IGCSE – October/November 2012	0460	13
5	(a)	(i)	Fuku	uoka/Osaka-Kobe/Nagoya/Tokyo		
			1 ma	ark		[1]
	(ii)	50%	of manufacturing output/industry; of public companies have headquarters there; of foreign financial institutions are there;		
			N.B:	or appropriate interpretation of statistics e.g. as a fi	raction.	
			2@	1 mark		[2]
	(i	ii)	Clos easy Flat Good	s such as: e to coast/ports; r to obtain imports/dispatch exports; land/interior is mountainous; d rail communications/there are 3 high speed rail lin e workforce/market/65% of Japans' population live		
			3@	1 mark		[3]
	(i	v)	over lack cong atmo unev indus	s such as: crowding of residential areas; of open space/green areas; gestion on roads; ospheric/noise/water/visual pollution (up to max. 2); ven development within country; stries unable to expand; es cost of land up/high cost of land;		
			4@	1 mark		[4]
	(b)	(i)	B. hi	arket/workforce; gh technology research/well qualified workers; ransport of raw materials/finished products/workforc	;e;	
			3@	1 mark		[3]
	(<u>ii)</u>	creat there more creat inves such	s such as: tion of jobs; efore stimulus to local economy/economic growth (d e money to spend on local businesses; ting multiplier effect (dev); stment in local infrastructure; as transport network (dev); oves standard of living;	lev);	
			5@	1 mark or development		[5]

Page 11	Mark Scheme	Syllabus	Paper
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(c) Levels marking

Level 1 (1-3 marks)

Statements including limited detail explaining causes of global warming.

Level 2 (4-6 marks)

More developed statements explaining causes of global warming.

Level 3 (7 marks)

Comprehensive and accurate statements explaining causes of global warming, including labelled diagram with at least 2 separate ideas on diagram e.g. causes and trapping heat idea.

Candidates may refer to ideas such as: Industry Fossil fuels Greenhouse gases Deforestation Sun's rays let through Heat trapped/build up heat Radiation Etc.

[7]

[TOTAL: 23]

	Page 12			2 Mark Scheme S		Paper
				IGCSE – October/November 2012 046	0460	13
6	(a)	(i)	Farn	ner/miner/fishing/forestry etc		
			1 ma	ark		[1]
		(ii)	corre Use only	ntries with low GDP have high percentage in prime elation (1 mark); of two pairs of statistics to illustrate this (2 nd mark 6% employed in primary industry but in Nepal the employed in primary industry.) e.g. \$36000 GDP	for Austria and
			Turk	er statistics are: Poland \$18500 GDP and 17% printer ey \$11500 GDP and 27% primary land \$7500 GDP and 43% primary	mary	
			2@	1 mark		[2]
		(iii)	man not r man lack	s such as: y people work in agriculture; nuch mechanization; y people lack education/skills/jobs are less skilled of factories/services; y subsistence farmers etc	,	
			3@	1 mark		[3]
		(iv)	Goo Corr Muc Thes	s such as: d service provision (or examples); panies involved earn high revenues/foreign curre h foreign investment/investment from multinationa se services (e.g. banks) support other industry; y educated people/skilled people;		
			4@	1 mark		[4]
	(b)	(i)	wildl mou tradi	actions such as: ife/safari/see animals in natural habitat/see elepha ntain scenery; tional cultures/artefacts/crafts/housing; course;	ants/fauna;	
			3@	1 mark		[3]

Page 13	Mark Scheme	Syllabus	Paper
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(ii) Ideas such as: Building/improvement of roads/railways; For tourist use can be used by locals (dev); Building/extending airports; Gives residents better access to other countries (dev); Water supply network developed; So people can use piped water for their homes (dev); Electricity grid extended; So people can use it in their homes (dev) Money used to invest in healthcare; so improves life expectancy (dev); Money used to invest in education; so gain better qualifications for higher paid jobs (dev); etc

5 @ 1 mark or development

[5]

(c) Levels marking

Level 1 (1–3 marks)

Statements including limited detail describing impact of tourism on natural environment.

Level 2 (4–6 marks)

Uses named example More developed statements describing impact of tourism on natural environment.

Level 3 (7 marks)

Uses named example (eg Algarve). Comprehensive and accurate statements describing **impact** of tourism on natural environment, including some place specific reference.

Candidates may refer to ideas such as: Animals Vegetation Coral Visual impact Air pollution Water pollution Etc.

Named example should be smaller than a country but if a small country is named such as Jamaica that is acceptable.

N.B: impacts can be positive or negative.

Place specific detail can be names of features/places/attractions within the selected example.

[7]

[Total: 25]