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.



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No 3 @ (iv) Ide peo lacl inac can poo poo hos ove traf atm inac		ssions; hope some will surv	
(iv) Ide peo lacl inac car poo poo hos ove traf atm inac	 B: Accept ideas expressed in reverse (ie in Australi b double credit for education. 	a there is)	
pec lacl inac car poc poc hos traf atm inac	@ 1 mark		[3
def	eas such as: cople do not have enough fuelwood/oil or named exacts of work/high unemployment/not enough jobs; adequate food supplies/can't grow enough crops; n't afford to import food; for access to education/overcrowded classes; for access to health care/high doctor-patient ratio/no spitals/doctors/hospital beds/clinics/medicines; ercrowded housing/lack of housing/growth of shanty affic congestion; mospheric pollution/water pollution/increased waste adequate water supply/sanitation; eruse of agricultural land/overgrazing/lack of farmla forestation/loss of natural vegetation; read of disease/increased health issues or named exacts	ot enough y towns; /litter; nd;	
4 @	@ 1 mark		[4

Page 3			Mark Scher	ne	Syllabus	Paper
		IGCSE -	- October/Nov	ember 2012	0460	13
	one in one in around Diego/i Etc	south/in Los / central part/ in a main cities/n names all 3 ci		ego area; o area;	San Diego/between I	
	3@1	mark				
	coastal where in bays as it is areas o as built road/ra agricult areas o	s; sheltered/pro of flatter land/ ding is easier ail/transport co ltural productio with over 250	en established tected from sto mainly below 6 on flatter land ommunications on is easier on mm precipitation	rms (dev); 00 metres/low la (dev); are easier/chea flatter land (dev) on/high rainfall;	per to build in lowland	d areas (dev);
	5@1	mark or devel	opment			
(c) Leve	els mar	king				
Leve	<u>el 1</u> (1–	-3 marks)				
		s including lim Il factors.	ited detail whic	h suggest reaso	ns for international m	igration can be
Leve	<u>el 2</u> (4–	-6 marks)				
More			nts which expl	ain reasons for i	nternational migratior	n. Can be push
Leve	<u>el 3</u> (7 r	marks)				
Corr	npreher				e place specific refe	rence. Must
Emp Serv Foo Con Clim Natu etc.	oloymer vices d Supp iflict natic fac ural Dis	nt lies ctors sasters	efer to ideas s		as within colocted cou	intrios
Piac	re shec	and detail coul	u include name	es or areas/piace	es within selected cou	intries.

	Page 4	1	Mark Scheme	Syllabus	Paper
	y		IGCSE – October/November 2012	0460	13
2	(a) (i)	Cen	tral Business District		
		1 ma	ark		[1]
	(ii)	Evid Pede High Lots	mark) ence for 2 nd mark such as: estrianised area; order services/examples e.g. shops/commercial; of people; nly 3 storey buildings;		
		2@	1 mark		[2]
	(iii)	А — В —	nods 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)	traffi long more cong wast 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/ ole need to travel to CBD for work/school/shops/bus y roads lead to this area; equate/narrow roads/incomplete ring road; very vehicles will cause congestion; ole parking will cause congestion; one road bridge over river; all areas are covered by a railway line/no station in (nedral traffic;	siness;	vhere lots of people

3 @ 1 mark

[3]

PMT

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0460	13

(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.

Level 2 (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]

Page 6	5		Mark Scheme	Syllabus	Paper
		IGCSE – C	October/November 2012	0460	13
(a) (i)	Spee	ed (of flow of the riv	ver)		
	1 ma	rk			[1
(ii)			osion/saltation/suspension attrition/hydraulic action/abi	•	
	В. р	articles deposited/	/deposition/particles droppe	ed;	
	2@	1 mark			[2
(iii)	•				
	3@	1 mark			[
(iv)	(Salt Mate Mate the v	ation); rials dissolved in t rials carried within vater;	up by water and bounced the water (Solution)/chemic the water (Suspension)/w d/rolled along bed (traction	cals destroy/dissolve r rithout touching river b	naterials;
	4@	1 mark			[4
(b) (i)	stee gent deep shall depo	o outer bank/river o	off slope/river beach; ; e;	idence. Ideas such as:	
	3@	1 mark			[3
(ii)	Wate Late Erod Deep Unde Colla Wate Lose	s such as: er flows quickly rou ral erosion; es outer banks/be bens channel; ercuts bank; apse of bank to pro er flows slowly rou s energy and depo tes slip off slope (o	ed; oduce steep slope (dev); nd inner bend; osits load (dev);		

Page 7	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0460	13

(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]

$D \Lambda \Lambda I$

Page	8	Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2012	0460	13
(a) (i)		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 expl pres lack	as such as: prestation is a source of wealth/income/trees u iture/building/construction; ny areas are too large to patrol; loitation by multinationals/MEDC's; asure on resources/land/for plantations (burnin of government legislation/weak government d trees for cooking/fuel/charcoal; etc	ng forest);	ient;
	3@	1 mark		[3
(iv)	Rub Colle Res Log Rep affor Ecol Con Crea Helil	as such as: ber tapping; ecting fruits/nuts; trict logging; one species rather than clear cutting/selectiv lace every tree chopped down by planting a r restation; tourism; servation areas; ation of tribal reserves; logging; all scale hunting by indigenous tribes;		moved/re-
	4@	1 mark		[4
(b) (i)	less less less	as such as: oxygen; precipitation/moisture in air; evapotranspiration/evaporation/transpiration e carbon dioxide;	;	

[5]

Page 9	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0460	13

(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

(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 1	0	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2012	0460	13
5	(a) (i)	Fuki	uoka/Osaka-Kobe/Nagoya/Tokyo		
		1 ma	ark		[1]
	(ii)	50%	o of manufacturing output/industry; o of public companies have headquarters there; o of foreign financial institutions are there;		
		N.B:	or appropriate interpretation of statistics e.g. as a	fraction.	
		2@	1 mark		[2]
	(iii)	Clos easy Flat Goo	as such as: se to coast/ports; y to obtain imports/dispatch exports; land/interior is mountainous; od rail communications/there are 3 high speed rail li ge workforce/market/65% of Japans' population live		
		3@	1 mark		[3]
	(iv)	over lack cong atmo unev indu	ns such as: rcrowding of residential areas; of open space/green areas; gestion on roads; ospheric/noise/water/visual pollution (up to max. 2) ven development within country; ustries unable to expand; es cost of land up/high cost of land;	;	
		4@	1 mark		[4]
	(b) (i)	B. hi	larket/workforce; igh technology research/well qualified workers; ransport of raw materials/finished products/workfor	ce;	
		3@	1 mark		[3]
	(ii)	crea there more crea inve such	as such as: ation of jobs; efore stimulus to local economy/economic growth (e money to spend on local businesses; ating multiplier effect (dev); stment in local infrastructure; n as transport network (dev); roves standard of living;	dev);	
		5 @	1 mark or development		[5]

Page 11	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0460	13

(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		Mark Scheme	Syllabus	Paper
		IGCSE – October/November 2012	0460	13
(a) (i)	Farr	ner/miner/fishing/forestry etc		
	1 ma	ark		[
(ii)	corre Use only	ntries with low GDP have high percentage in prima 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% prir ey \$11500 GDP and 27% primary iland \$7500 GDP and 43% primary	nary	
	2@	1 mark		[
(iii)	man not r man lack	is such as: iy people work in agriculture; much mechanization; iy people lack education/skills/jobs are less skilled; of factories/services; iy subsistence farmers etc		
	3@	1 mark		[
(iv)	Goo Corr Muc Thes	is such as: d service provision (or examples); ipanies involved earn high revenues/foreign currer h foreign investment/investment from multinationa se services (e.g. banks) support other industry; hy educated people/skilled people;		
	4@	1 mark		I
(b) (i)	wildl mou tradi	actions such as: life/safari/see animals in natural habitat/see elepha intain scenery; itional cultures/artefacts/crafts/housing; course;	ints/fauna;	
	າຄ			

3 @ 1 mark

[3]

Page 13	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2012	0460	13

(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]