MARK SCHEME for the October/November 2007 question paper

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0680 ENVIRONMENTAL MANAGEMENT

0680/01

Paper 1, maximum raw mark 60

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.

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.

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	Page 2		Mark Scheme	Syllabus	Paper				
			IGCSE – October/November 2007	0680	01				
1	(a) ((i)	large/tall/big/long/quoted height bigger than 3m/avp)	[1]				
	(i	ii)	biomass/biofuel/biodiesel		[1]				
	(ii	ii)	gives off CO ₂ /as does coal/grass takes it in/coal not/C neutral [2] mark for comparative statement (even if implied) about harmful/polluting gases/fumes; mark for correct specific gas/fume						
	(b) ((i)	s, or one plus [3]						
	(i	ii)	port increase; cataly sharing; avp	tic converter; [3]					
		® laws/fines/policies unless qualified sensibly							
2	(a) ((i)	A and B						
			C and D accept written if correct		[2]				
	(i	ii)	D		[1]				
	(ii	ii)	water (freezes) expands; pushing rock apart/cracks	s rock	[2]				
	• •	(b) water; air/oxygen; humus/organic material; microbes/bacteria/decomposers ® minerals named							
	C	(c) afforestation; contour ploughing; terracing; maintain vegetation cover; reduce/avo overgrazing/reduce grazing; avoid overcultivation; use organic fertilisers/humus/manure etc allow development marks up to 2 for any single strategy							
	Œ	® soil degradation points (i.e. things to do with mineral loss etc.)							
3	(a)(i)/	/(ii)	1998; 1994		[2]				
	(b) ((i)	cold current bring nutrients; upwelling; nutrients fe idea) OR anchovy prefer/do better/thrive in cold water;	ed algae; algae feed fi	sh (food chain				
			so fish migrate/move away		[3]				
	(i	ii)	El Nino makes water warm; not suitable for anchov current reversal; nutrients not brought/no upwellin anchovy	-	ough food for [2]				
	r r	quota; discussed net size; discussed moratoria; discussed							
		fishing season/restriction times; discussed only fish in designated areas;							

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0680	01

4 (a) B

[1]

(b) (i) A:

large(r) base/many young people (D); high birth rate; lack of contraception; narrow/few old people (D); high death rate/low life expectancy; due to poor medical facilities/food supply/avp; working people (15–60) rel. low (D); (Max 2 for D points)

Further points Very young less than older (0–4 < 5 upwards); Birth rate slowing;

OR

B:

Straight(ish) sides (D); low(er)(ed) birth rate; long(er) life expectancy Narrow(er) base (D); low(er) birth rate; use of contraception; emancipation (eq) of women/avp Broad(er) top(D); low(er) death rate; improved medicine/diet/health/avp Large(r) working population (D); lower child mortality; avp More women than men at old age(D); life expectancy of women after 65 longer than men

(ii) Shift from high death to low(er) death rate; population explodes; then birth rate falls; population growth slows any 2 [2]

(c) ® PULL factors

Н

over use of land leading to degradation/overgrazing; lack of food/money; population rising; lack of resources (named)/jobs/services; persecution/local political factors; removed from land; war; e.g.

Ρ

Natural disasters; destruction of services/agriculture; Climate change; loss of agricultural land/right conditions for agriculture;

Grey areas (allow in either category) Lack of clean water/sanitation; disease (eq) points about soil

	Page 4			Mark Scheme		Syllabus	Paper			
				IGC	SE – Octobe	r/November 2007	0680	01		
5	(a)	(i)	radia	ation; absorp	otion; reflectio	n		[2]		
		(ii)	nortl	northern; angle of rays nearer 90/less atmosphere to absorb heat/radiation/longer						
	(b)	(i)	IGN	daylength longer; more (electrical) energy; accept converse argument IGNORE ref to temperature unless only ref is to temperature temperatures hotter; more solar heat; has no effect on amount of electricity						
		(ii)		fossil fuels running out; consequence; alternatives will not fossil fuels pollute; consequence; alternatives do not 2 each						
6	(a)	(i)	C sedi	mentary	B igneous	A metamorphic		[2]		
		(ii)	GRA	GRANITE: buildings/sculptures/sports equipment/avp						
			LIMESTONE: making glass/blast furnace/acid neutralising/quicklime/building SANDSTONE: paving/coasters							
	(b)	(i)	pollution (qualified with e.g. noise/visual/dust); habitat/landscape destruction; deforestation; erosion; dangers (specified) to miners/quarries; loss of property/jobs run out;					[3]		
		(ii)	addi addi	amation; ing soil; ing fertiliser/r ting trees/otl				[3]		