

# Many, Dapa Cambridge, com MARK SCHEME for the October/November 2007 question paper

# 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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Pag	e 2		Syllabus of er
		IGCSE – October/November 2007	0680
(a) (	(i)	large/tall/big/long/quoted height bigger than 3m/avp	an
(i	i)	biomass/biofuel/biodiesel	
(ii	i)	gives off CO <sub>2</sub> /as does coal/grass takes it in/coal not/C ne mark for comparative statement (even if implied) about he mark for correct specific gas/fume	
(b) (	(i)	acid rain; gas dissolves in water to form acid; any TWo development for max;	O acid rain effects, or one pl
(i	i)	alternative energy (or named); public transport scrubbers/filters in chimneys; walking; cycling; car sharin	-
(a) (	(i)		
(	i)	C and D accept written if correct	
-	,		
(11	1)	water (freezes) expands; pushing rock apart/cracks rock	
• •		er; air/oxygen; humus/organic material; microbes/bactei ned	ria/decomposers ® minerals
Ċ	ove	restation; contour ploughing; terracing; maintain ve rgrazing/reduce grazing; avoid overcultivation; use organi w development marks up to 2 for any single strategy	
Œ	<u> ৩</u> ১০	oil degradation points (i.e. things to do with mineral loss ef	tc.)
(a)(i)/	/(ii)	1998; 1994	
(b) (	(i)	cold current bring nutrients; upwelling; nutrients feed alg	gae; algae feed fish (food cha
		OR anchovy prefer/do better/thrive in cold water; so fish migrate/move away	
(i	i)	El Nino makes water warm; not suitable for anchovy; current reversal; nutrients not brought/no upwelling/low anchovy	nutrients; not enough food t

net size; discussed moratoria; discussed fishing season/restriction times; discussed only fish in designated areas;

[3]

 Page 3	Mark Scheme	Syllabus A. D. er
	IGCSE – October/November 2007	0680
(a) B		ambrid
(b) (i)	<b>A</b> :	'Se.co.
	large(r) base/many young people (D); high birth ranarrow/few old people (D); high death rate/low	

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#### 4 (a) B

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; [2] population growth slows any 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

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	Pa	ge 4			Mark	Scheme		Sy	llabus	A er	
		•		IGC	SE – Octobe	er/November	2007		0680	12	
5	(a)	(i)	radiat	Mark Scheme Syllabus   IGCSE – October/November 2007 0680   radiation; absorption; reflection of rays nearer 90/less atmosphere to absorb heat/radiation/longe   daylength longer; more (electrical) energy; accept converse argument					Can	br.	
		(ii)	northe	ern; angle	of rays near	er 90/less atn	nosphere to	absorb	heat/radiat	ion/longer	10
	(b)	(i)	IGNO	RE ref to t	emperature u	trical) energy; unless only re plar heat; has	f is to tempe	erature	5		[2]
		(ii)				equence; alte ence; alternativ					[4]
6	(a)	(i)	<b>C</b> sedim	entary	<b>B</b> igneous	<b>A</b> metame	orphic				[2]
		(ii)	GRAN	NITE: build	lings/sculptur	es/sports equ	ipment/avp				
			LIME	STONE: m	aking glass/b	plast furnace/a	acid neutrali	ising/quic	klime/build	ing	
			SANE	STONE: p	paving/coaste	ers					[2
	(b)	(i)	habita defore erosic	it/landscap estation; on;	be destruction		ust);				
			-	f property/	ied) to miners /jobs	s/quarries;					[3
		(ii)	addin addin	g fertiliser/	/manure eq; ther plants;						[3