MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0680 ENVIRONMENTAL MANAGEMENT

0680/11 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, which would have considered the acceptability of alternative answers.

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: Teachers' version	Syllabus	Paper
				IGCSE – October/November 2010 0680		11
1	sud (R)		(R) s	lag; den increase; straight line of any sort that goes beyond about 1950 re levelling off	0	[2]
		(ii)	1 C 2 A 3 B 4 D	; ;		[4]
	(b)	(i)		r / no hospitals / doctors / ; ellent hospitals / doctors		[2]
		(ii)	bette	nt lights; excitement; better wages; more jobs; bette er employment conditions; ⁻ E Must have a qualification where noted	r education;	[2]
2	(a)	(i)	krill;	squid;		[2]
		(ii)	krill	OR phytoplankton;		[1]
		(iii)	4 for	for 2		[3]
	(b)	(i)	20 ×	5000; = 100 000 units;		[2]
		(ii)		control; e.g. (such as predators / parasites or GM me sical barrier; e.g. of what barrier keeps out;	ethods);	[2]
3	(a)	(i)		ust / lithosphere; antle; pre;		[3]
		(ii)	R se lime	ous; umulation of) small rock particles / sediments / shel edimentation stone / clay / sandstone / coal / avp e / marble / avp;	ls / organic matte	r; [4]
						[·]
	(b)	(i)	accu	irate plots;;		[2]
		(ii)	silve	ır;		[1]

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	Page 3			Syllabus	Paper	
			IGCSE – October/November 2010	0680	11	
4	(a)	(i)	state of the atmosphere / troposphere; plus example pressure / temp / precipitation / rainfall / wind / sun;			
	1	(ii)	any 2 of above with correct explanations e.g. barometer; detail; thermometer; detail (e.g. screen etc.); rain gauge; detail; anemometer; detail; placement R wind gauge sunshine recorder; detail any two max		[4]	
	(b)	(i)	correctly plotted points;;		[2]	
		(ii)	savannah; wet season, but always warm to hot;		[2]	
5	(a)	(i)	air air 19–20 shipping 9–10		[2]	
		(ii)	add nutrients; stimulate algal growth; dead bodies; de deplete oxygen; fish death; eutrophication;	ecompose	[4]	
	(b)	(i)	seas linked to each other; currents move pollutants		[2]	
		(ii)	preventing: double hulls / pipelines;		[1]	
	(iii)	dealing: booms / detergent / skimmers / burn off;		[1]	
6	(a)	(i)	amount of energy / power / heat received on a surfac	e / incoming solar rad	diation; [1]	
		(ii)	342 - 242 = 100 units more; $\frac{100}{242} \times 100 = 41.3$ %; ((A) 41 but not 42) 242		[2]	
	(iii)	nearness to coast / water body / (warm / cold) curr altitude; cloud cover; winds if say where from;	, , ,		
	(b)	(i)	fossil fuels pollute; e.g.; fossil fuels running out / limited; fossil fuels non renewable;			
			3 marks for three bit can have one development mark can award converse in any case	with any.	[3]	
		(ii)	HEP / geothermal / wave / wind / tidal / nuclear / biog relevant development;	as;	[2]	

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