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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

0680 ENVIRONMENTAL MANAGEMENT

0680/11

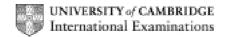
Paper 1, maximum raw mark 60

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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2			Mark Scheme: Teachers' version Syllabus F	Paper	
		_	IGCSE – October/November 2010 0680	11	
1	(a)	(a) (i) long lag; sudden increase; (R) straight line of any sort that goes beyond about 1950 ignore levelling off			
		(ii)	1 C ; 2 A ; 3 B ; 4 D ;	[4]	
	(b)	(i)	poor / no hospitals / doctors / ; excellent hospitals / doctors	[2]	
		(ii)	bright lights; excitement; better wages; more jobs; better education; better employment conditions; NOTE Must have a qualification where noted	[2]	
2	(a)	(i)	krill; squid;	[2]	
		(ii)	krill OR phytoplankton;	[1]	
		(iii)	leopard seal; elephant seal; squid; other birds; 4 for 3 2–3 for 2 1 for 1	[3]	
	(b)	(i)	20 × 5000; = 100 000 units;	[2]	
		(ii)	bio control; e.g. (such as predators / parasites or GM methods); physical barrier; e.g. of what barrier keeps out;	[2]	
3	(a)	(i)	A crust / lithosphere; B mantle; C core;	[3]	
		(ii)	igneous; (accumulation of) small rock particles / sediments / shells / organic matter; R sedimentation limestone / clay / sandstone / coal / avp	[4]	
			slate / marble / avp;	[4]	
	(b)	(i)	accurate plots;;	[2]	
		(ii)	silver;	[1]	

	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	I / sun;	[2]	
	((ii)				
			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; decomposite deplete oxygen; fish death; eutrophication;	oose	[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 surface / inc	coming solar ra	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) currents altitude; cloud cover; winds if say where from;		(large lake); a	mount of snow; [2]		
	(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 with can award converse in any case	any.	[3]	
	((ii)	HEP / geothermal / wave / wind / tidal / nuclear / biogas; relevant development;		[2]	