## 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.

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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	Paper
			IGCSE – October/November 2010 0680	11
1	(a)	(i)	long lag; sudden increase; (R) straight line of any sort that goes beyond about 1950 ignore levelling off	[2]
		(ii)	1 <b>C</b> ; 2 <b>A</b> ; 3 <b>B</b> ; 4 <b>D</b> ;	[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	3 (a)		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	
			slate / marble / avp;	[4]
	(b)	(i)	accurate plots;;	[2]
		(ii)	silver;	[1]

	Page 3		}	Mark Scheme: Teachers' version	Syllabus	Paper	
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4	(a)	<ul> <li>(i) state of the atmosphere / troposphere;</li> <li>plus example pressure / temp / precipitation / rainfall / wind / sun;</li> </ul>				[2]	
		<ul> <li>(ii) any 2 of above with correct explanations e.g. barometer; detail; thermometer; detail (e.g. screen etc.); rain gauge; detail;</li> </ul>					
			aner	nometer; detail; placement R wind gauge shine recorder; detail any two max		[4]	
	(b)	(i)	corre	ectly plotted points;;		[2]	
		(ii)	sava	nnah; wet season, but always warm to hot;		[2]	
5	(a)	(i)	air a shipp	ir 19–20 ping 9–10		[2]	
		(ii)		nutrients; stimulate algal growth; dead bodies; deco ete oxygen; fish death; eutrophication;	ompose	[4]	
	(b)	(i)	seas	s linked to each other; currents move pollutants		[2]	
		(ii)	•	enting: ble hulls / pipelines;		[1]	
		(iii)	deali boor	ing: ms / detergent / skimmers / burn off;		[1]	
6	(a)	(i)	amo	unt of energy / power / heat received on a surface /	incoming solar rad	diation; [1]	
(i		(ii)		– 242 = 100 units more;			
			100 242 242	× 100 = 41.3 %; ((A) 41 but not 42)		[2]	
		(iii)	nearness to coast / water body / (warm / cold) currents (large lake); amount of altitude; cloud cover; winds if say where from;				
	(b)	(i)	fossi fossi	il fuels pollute; e.g.; il fuels running out / limited; il fuels non renewable; arks for three bit can have one development mark w	vith anv.		
				award converse in any case		[3]	
		(ii)		/ geothermal / wave / wind / tidal / nuclear / biogas vant development;	· ,	[2]	