CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2014 series

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



1	(a)	(i)	living things/plants AND animals/biotic (components) (in an area/environment); non-living (components)/abiotic (in an area); ref. interaction/eq.;	[3]				
		(ii)	(clockwise); light/solar; photosynthesis; heat;	F.41				
			respiration;	[4]				
	(b)	the	re would be reduced leaf fall; re would thus be less humus/nutrients/organic matter; soil quality would decrease;	[3]				
2	(a)	(i)	high sea temperature/sea temperature >27 °C; heats air above it; hot air rises; pressure gradient/low pressure develops which sucks in more air;	[4]				
		<i>(</i>)		[4]				
		(ii)	damage related to high winds, e.g. blown trees/buildings/eq.; damage related to heavy rain/storm surge, e.g. flooding/landslides;	[2]				
	1	(iii)	provision of shelters; provision of emergency rations; provision of medical supplies; education as to what to do in event of cyclone; better flood defences;					
			ref. better prediction/evacuation;	[2]				
	(b)	pur	neration of) electricity; nping water from ground; nding corn/wheat etc.;	[2]				
3	(a)	(i)	photosynthesise water; respire oxygen; Ignore second use of same word.	[2]				
		(ii)	oxygen / air; because (air) spaces full of water; oxygen not very soluble in water;	[2]				
		(iii)	(improve) drainage; addition of sand; addition of manure/organic fertiliser; spiking/digging holes;					
			tolerant strains of crops; planting waterlogging resistant trees to take up water;	[3]				

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Syllabus 0680

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						IG	CSE -	May/J	une 20)14		06	80	11	
	(b)	(i) (ii)	clay	d –	C;										[1]
						for tw	o marl	ks. Two	or one	e correct	for one	mark.			[2]
4	(a)	oil/ tida wat salt	er;	ver/v		power	.,								[3]
	(b)	(i)	В	th of		sea bi	rds/oi	ling of	feather	s;					
		(ii)	ref. to	ers of to eu ble h dum	xyger itroph ulls; iping/	ication	n / infed washir	ctious o				ties;			[4]
					treatn above		efore	dischar	·ge;						[3]
5	(a)	(i)					verge tructiv								[2]
		(ii)	labe volca labe labe labe	elled elled ano elled elled	ocear subdu show magn fold m frictio	uction; n; na; nounta n;	d conti		plates;						[4]
	(b)	cre- car to v ger ref.	ate ho be u varm nerate	ot spused house electron	rings to heases; ctricity	at wat	athing er;)/healt	h spas						[4]
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6 (a) (i) roots no longer able to bind soil;

plants no longer present to intercept rain; rain washes soil away/nutrients out of soil; wind blows soil away; soil exposed;

[4]

(ii) water dissolves salts in soil/brings salt up in water; evaporates from surface; leave salts behind as;

[2]

(b) community forestry;

reforestation; sustainable harvesting (strip logging/selective logging); genetic engineering; agro-forestry;

Allow one or two development marks for any of these.

[4]

[Total: 60]