CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2015 series

0680 ENVIRONMENTAL MANAGEMENT

0680/43

Paper 4 (Alternative to Coursework), 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.

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(a)	(i)	(most of the) sand is returned/damage only temporary/	/eq.;		[1	
	(ii)	reduces imports; encourages manufacturing; employs r allows tax revenues; for infrastructure / named example;		Э;	[2	
(b)	(i)	3%;			[1	
	(ii)	0.9 to 3.6%/2.7%;			[1	
(iii)	sample 5/eq.; [1				
(iv) some form of sampling/measuring error; error with magnesis sample; mass of ilmenite; AVP;				ling error, e.	g. mass o [2	
	(v)	could have used a stronger/bigger magnet; different time with magnet; samples taken from deeper	in beach; A	VP;	[2	
(c)	(i)	Accept reasonable responses, e.g. question 1 can now see most of the sand is returned; to fishing still ok; turtles returning; AVP;	ref. to tem	porary disru	otion; ref.	
		question 2 now making more money; still able to fish	most of the	year; AVP;		
		question 3 we all benefit now; keep earning money; n improve standard of living; example descri	•	to feed fam	ily;	
		Max. two marks for each question.			[5	
	(ii)	a method that does not ask everyone; further detail, e.g	ı. different a	ages/income	e groups; [2	
(d)	(i)	so the mass of sand is correct; driver's mass must be in	ncluded (bo	th in and ou	t)/e.q.; [2	
	(ii)	to keep pace with inflation/cost of living/eq.;			[1	
(e)	(i)	suitable scales; axes labelled; up to two marks for plotti	ng (allow o	ne error);;	[4	
	(ii)	increase until year 5; peak at year 3; over 200 employed decrease; constant from year 7–9;	es betweer	n year 3–6; t	hen [2	
(iii)	more mechanisation/eq.; AVP, e.g. less demand/mine	ral licence	runs out;	[1	
• •		to reduced soil erosion by rain; wind; more interception; ; creates habitat; AVP, e.g. harvest coconuts;	root bindin	g; returns fe	rtility to [3	

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(a)	(i)	47;	[1]			
	(ii)	correct line; (Allow ECF.)	[1]			
	(iii)	4320; 6120;	[2]			
	(iv)	each nesting event is different/eq./more nests gives more eggs/eq./comment on average;	[1]			
(b)	(i)	dogs looking for food; humans can eat them; both damage nests;	[2]			
	(ii)	red list helps make people/industry/planners aware of the problem; CITES makes trade in turtles/products illegal;	[2]			
(c)	rati	os change; less females to lay eggs; or less males to mate; population likely to go do	wn; [2]			
(d)	(i)	655; 1888;	[2]			
	(ii)	110; 88; 108/109; 90;	[4]			
	(iii)	same;				
		number of live hatchlings about the same; so the proportions of undeveloped are similar and dead hatchlings are similar proportions AVP;	ortion; [4]			
	(iv)	so the comparison is fair/eq.;	[1]			
	(v)	to find out if Olive Ridley Turtles are recovering in numbers/eq.; using same beaches for nests; control development near beach; AVP;	[2]			
(e)	(i)	tie the flap down; remove the grill at (sea);	[1]			
	(ii)	inspect fishing gear at sea; in harbour; sea patrols; fines; boats impounded;	[2]			
(f)	red	ate special low-light zone near beach; reduce number of lights; max. power of lights; uce lighting during nesting season; reduce traffic near coast at night in season; P, e.g. control development near beach;	[3]			
VP = /	Alteri	native Valid Point.				

[Total: 60]