CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2015 series

0680 ENVIRONMENTAL MANAGEMENT

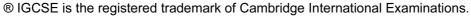
0680/43 Paper 4 (Alternative to Coursework), maximum raw mark 60

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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.





		Can	bridge IGCS	E – October	November 2	2015	0680	43		
1 (a)	(i)	i) (most of the) sand is returned/damage only temporary/eq.;					[1]			
	(ii)	reduces imports; encourages manufacturing; employs more people; allows tax revenues; for infrastructure/named example; AVP;								
(b)) (i)	3%;								
	(ii)	0.9 to 3.6%/2.7%;								
	(iii)	sample 5/eq.; [1]								
	(iv)	some form of sampling/measuring error; error with magnet; recording error, e.g. mass of sample; mass of ilmenite; AVP; [2]								
	(v)		used a stronge e with magnet			per in beach; A	VP;	[2]		
(c)) (i)	 Accept reasonable responses, e.g. question 1 can now see most of the sand is return to fishing still ok; turtles returning; AVF 				-	oorary disru	ption; 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; need money to feed improve standard of living; example described;					to feed fan	nily;		
		Max. two marks for each question.					[5]			
	(ii)	a method that does not ask everyone; further detail, e.g. different ages/income group						e groups; [2]		
(d)) (i)	so the mass of sand is correct; driver's mass must be included (both in and out)/e.c				ıt)/e.q.; [2]				
	(ii)	to keep pace with inflation/cost of living/eq.;								
(e)	(i)	suitable sca	les; axes labe	lled; up to tw	o marks for p	olotting (allow o	ne error);;	[4]		
	(ii)	increase until year 5; peak at year 3; over 200 employees between year 3–6; then decrease; constant from year 7–9;								
	(iii)	more mecha	nisation/eq.;	AVP, e.g. les	ss demand/n	nineral licence ı	runs out;	[1]		
(f)			oil erosion by itat; AVP, e.g.		•	ion; root bindin	g; returns fe	ertility to [3]		

Mark Scheme

Syllabus

Paper

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			Cambridge IGCSE – October/November 2015	0680	43						
2	(a)	(i)	47;								
	(ii)	correct line; (Allow ECF.)		[1]						
	(i	ii)	4320; 6120;		[2]						
	(i	v)	each nesting event is different/eq./more nests gives more eggs/eq./commaverage;								
	(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;								
	(c) i	ratio	atios change; less females to lay eggs; or less males to mate; population likely to go down								
	(d)	(i)	655; 1888;		[2]						
	(ii)	110; 88; 108/109; 90;		[4]						
	(i	ii)	use of any 4 comparative figures in statements, e.g. number of egg	gs per nest a	about the						
			same; number of live hatchlings about the same; so the proportions of undeveloped are similar and dead hatchlings are similar proportion; AVP;								
	(i	v)	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; A	VP;	[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 imp	oounded;	[2]						
	1	redu	ate special low-light zone near beach; reduce number of lights; max uce lighting during nesting season; reduce traffic near coast at night P, e.g. control development near beach;	•	ghts; [3]						

Mark Scheme

AVP = Alternative Valid Point.

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[Total: 60]

Syllabus

Paper