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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

## 0680 ENVIRONMENTAL MANAGEMENT

0680/41

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 must be read in conjunction with the question papers and the report on the examination.

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

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Syllabus

		190 -	_	IGCSE – October/November 2011	0680	
				IGCSE – October/November 2011	0000	ambridge
1	(a)	(i)	fish:	protein/oils/omega 3 and or 6/vitamin A/vitamin D/c	alcium:	Ph.
•	(ω)	(.,		carbohydrate/energy source/vitamin B/fibre;	aloidin,	100
				not allow vitamins/minerals/nutrients unqualified)	`	90
			(			06
		(ii)	SO C	an still produce food/rice during flooding;		
			grov	vs as fast as water rises/eq;		•
			no n	eed to try and control water level/eq;		
			harv	est earlier;		
			(any	two)		[2]
		/:::\	4-1-1-	the stage we sould the state.		
		(iii)		e that can record the data;		
				able headings;;	ab/aumbar/tuna/waight)	[2]
			(IIIu	st be for 7 days and a minimum of one of farmer/cat	cn/number/type/weight)	[3]
		(iv)	relia	bility/eq;		
		(,		alculate average/mean;		
				atches can be compared;/to give a more complete p	picture:	
				one)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			` •	not allow precise/accurate)		[1]
			`	,		
	<i>.</i>	<b>/</b> 13		• •		
	(b)	(i)	weig			
				length;		
			sex;			
			age;	not allow number/type)		
			•	tic factor e.g. temp/pH/specific pollutant/time spent t	fishina:	
				two)	nsinig,	[2]
			(arry	twoj		[۷]
		(ii)	keer	taking samples for more than one year/eq;		
		` '		actly the same way/eq;		
				pare the catches/eq;		
			ref to	c LEDC's/eq;		
			(any	two)		[2]
	(c)	(i)	Α.			[1]
	(-)	(-)	, ,,			1.1
		(ii)	C;			[1]
		(iii)		fishing elsewhere/more people fishing;		
				same village; pollution;		
				example of pollution;		
				disease;		[0]
			(any	two)		[2]
	(d)	kills	s all fi	sh;		
	` ,			ng fish;		
				ins altered;		
		furt	her a	opropriate explanation;		
				ding fast enough;		
				ing stock left;		
			-	n not used for food/eq e.g. left in water;		
				rophication;		
		(an	y thre	e)		[3]

Mark Scheme: Teachers' version

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Page 3	1	Mark Scheme: Teachers' version	Syllabus
raye 3	,	IGCSE – October/November 2011	0680
(e) (i)	fines quota set n close no ca AVP	nces; ng patrols; s/eq; as; mesh size; e season; atch areas/eq;	Syllabus 0680  A-Daybaccannyhnag
(ii)	EITH yes:  OR no:	makes people aware; may help to save habitat; sfunding; more scientific interest; ref to law; (any two people will keep capturing it; habitat cannot be become extinct/eq; more desirable; more poachitwo)	saved/eq; so few left its likely to
(f) (i)	some still s less still a ref to	able to fish; e power; some silt; annual flooding; able to grow rice; o generating local jobs; three)	[3]
(ii)	for end more more econ ref to	e electricity/energy (than B); expanding population; e flood control; e aid to build dam/eq; e jobs (than B); e money made by government (more quickly); nomy of scale; o developing more industry; e two)	[2]
(a) (i)	some	e correct working; most C; least B;	[3]
(ii)	axes plots	ntation; s labelled (weight/kg and year/time or all years label s (no errors); w line or bar graphs)	led);; [4]
(iii)	2005	5/2008; (allow ref to third or sixth year)	[1]
(iv)		5; × 10 = 262.5 (262/263); 262.5 (262/263);;	[2]

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	Page 4	1	Mark Scheme: Teachers' version	Syllabus	Syllabus	
		<u>-                                      </u>	IGCSE – October/November 2011	0680	No.	
	(b) (i)	high free (allo	warm/tropical; n rainfall/wet/monsoon; standing water; ow savanna) y two)		A. PapaCambridge	
	(ii)	mos too cani as n cani so n no v ref t	d breeding of mosquito/eq; squito's breed in water; much water; not all be drained; needed for rice; not spray all the water; not all mosquitoes can be killed; vaccine yet; to cost; not stop mosquitoes biting humans; y three)		[3]	
	(iii)	use appl use keep ref t anti	ce a repellent from cashew shell/gum; of a repellent; ly at night; of nets; p covered (at night); ro reducing breeding sites of mosquitoes; malarial drugs; y two)		[2]	
3	(a) (i)		ober/November to March;		[1]	
	(ii)	-	three valid jobs;; 2:1)		[2]	
	(b) (i)	-	three valid questions such as income, employment k skills ;;; out;	, number of depe	endents, relevant [4]	
	(ii)		wed developments: such as sewage works; small s ds; paths for hiking; more jobs; other valid ideas; (ma		es/camps; small	
		othe	strictions: such as large hotels; restaurants; golf cour er valid ideas; (max 4) ok for suitable qualifications in both parts/'/)	rse; large roads; o	dumping wastes; [8]	