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.

	· · ·	.90 -		IGCSE – October/November 2011	0680	41	
				IGCSE - October/November 2011	0000	41	
1	(a)	(i)		protein/oils/omega 3 and or 6/vitamin A/vitamin D/o	alcium;		
				carbohydrate/energy source/vitamin B/fibre; not allow vitamins/minerals/nutrients unqualified)			[2]
		/::\	•	• ,			
		(ii)		an still produce food/rice during flooding; vs as fast as water rises/eq;			
			no n	eed to try and control water level/eq;			
				est earlier; two)			[2]
		, \	` -	,			L—J
		(iii)		e that can record the data; able headings;;			
				st be for 7 days and a minimum of one of farmer/cat	ch/number/type/w	veight)	[3]
		(iv)	relia	bility/eq;			
		` ,	to ca	alculate average/mean;	. ,		
				atches can be compared;/to give a more complete p one)	Dicture;		
				not allow precise/accurate)			[1]
	(b)	(i)	weig	ıht; /length;			
			sex;	iongai,			
			age;				
			•	not allow number/type) tic factor e.g. temp/pH/specific pollutant/time spent :	fishing;		
			(any	two)	_		[2]
		(ii)		taking samples for more than one year/eq;			
				cactly the same way/eq; pare the catches/eq;			
				c LEDC's/eq;			
			(any	two)			[2]
	(c)	(i)	A;				[1]
		(ii)	C;				[1]
		(iii)		fishing elsewhere/more people fishing;			
		(111)		same village; pollution;			
				l example of pollution; disease:			
				uisease; two)			[2]
			, ,	,			
	(d)		all fi				
				ng fish; ins altered;			
		furt	her a	ppropriate explanation;			
				ding fast enough; ling stock left;			
				h not used for food/eq e.g. left in water;			
				rophication;			[2]
		(an	y thre	c)			[3]

Mark Scheme: Teachers' version

Syllabus

Paper

Page 2

Page 3)	Mark Scheme: Teachers' Version	Syllabus	Paper
		IGCSE – October/November 2011	0680	41
(e) (i)	fines quot set r close no ca AVP	ng patrols; s/eq; as; nesh size; e season; atch areas/eq;		[2]
(ii)		HER makes people aware; may help to save habitat; s funding; more scientific interest; ref to law; (any tw		breeding; more
	OR no:	people will keep capturing it; habitat cannot be s become extinct/eq; more desirable; more poachi two)	-	•
(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 e more more more ecor 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; two)		[2]
(a) (i)	som	e correct working; most C; least B;		[3]
(ii)	orier axes plots	ntation; s labelled (weight/kg and year/time or all years labell s (no errors);	led);;	
	(allo	w line or bar graphs)		[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]

Mark Scheme: Teachers' version

Syllabus

Paper

Page 3

2

Page	e 4	Mark Scheme: Teachers' version IGCSE – October/November 2011	Syllabus 0680	Paper 41
(b) (h fi (not/warm/tropical; nigh rainfall/wet/monsoon; free standing water; (allow savanna)	1 0000	[2]
(i	r to c c c s r r	rapid breeding of mosquito/eq; mosquito's breed in water; too much water; cannot all be drained; as needed for rice; cannot spray all the water; so not all mosquitoes can be killed; no vaccine yet; ref to cost; cannot stop mosquitoes biting humans; (any three)		[3]
(ii	r a k r a	make a repellent from cashew shell/gum; use of a repellent; apply at night; use of nets; keep covered (at night); ref to reducing breeding sites of mosquitoes; anti malarial drugs; (any two)		[2]
_ , , ,	,			
3 (a) ((i) (October/November to March;		[1]
(i		any three valid jobs;; (3:2 2:1)		[2]
(b) (V	any three valid questions such as income, employmenwork skills ;;; ayout;	nt, number of depe	ndents, relevant [4]
(i		allowed developments: such as sewage works; small roads; paths for hiking; more jobs; other valid ideas; (r		es/camps; small
	C	Restrictions: such as large hotels; restaurants; golf conther valid ideas; (max 4) (Look for suitable qualifications in both parts/'/)	urse; large roads; c	lumping wastes; [8]