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.



Page 2			Mark Scheme: Teachers' version	www.dynamicpa	Paper
			IGCSE – October/November 2011	0680	41
(a)	(i) (ii)	rice: (do r so ca grow no n	protein/oils/omega 3 and or 6/vitamin A/vitam carbohydrate/energy source/vitamin B/fibre; not allow vitamins/minerals/nutrients unqualifie an still produce food/rice during flooding; vs as fast as water rises/eq; need to try and control water level/eq; rest earlier;		[2
	(iii)	(any	e that can record the data;		[2
(111)		suita	able headings;; st be for 7 days and a minimum of one of farm	er/catch/number/type/\	weight) [3
	(iv)	to ca so ca (any	bility/eq; alculate average/mean; atches can be compared;/to give a more comp one) not allow precise/accurate)	plete picture;	['
(b)	(i) (ii)	size/ sex; age; (do r abio (any keep in ex	/length; not allow number/type) tic factor e.g. temp/pH/specific pollutant/time s r two) taking samples for more than one year/eq; kactly the same way/eq;	spent fishing;	[2
		ref to	pare the catches/eq; o LEDC's/eq; [,] two)		[2
(c)	(i)	A;			[′
	(ii)	C;			[^
	(iii)	from valid fish (fishing elsewhere/more people fishing; a same village; pollution; d example of pollution; disease; v two)		[2
foo furt not no ma ref		your d cha her a breed breed ny fisl	ng fish; ins altered; ppropriate explanation; ding fast enough; ling stock left; h not used for food/eq e.g. left in water; trophication;		[(

	V	www.dynamicpapers.com		
Page 3	Mark Scheme: Teachers' version	Syllabus	Paper	
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 (e) (i) licences; fishing patrols; fines/eq; quotas; set mesh size; close season; no catch areas/eq;

[2]

(ii) EITHER

AVP;

(any two)

- yes: makes people aware; may help to save habitat; saved by captive breeding; more funding; more scientific interest; ref to law; (any two)
- OR

2

no: people will keep capturing it; habitat cannot be saved/eq; so few left its likely to become extinct/eq; more desirable; more poaching; increased price of fish; (any two)

(f)	(i)	 still able to fish; some power; still some silt; less annual flooding; still able to grow rice; ref to generating local jobs; (any three) 	
	(ii)	more electricity/energy (than B); for expanding population; more flood control; more aid to build dam/eq; more jobs (than B); more money made by government (more quickly); economy of scale; ref to developing more industry; (any two)	[2]
(a)	(i)	some correct working; most C; least B;	[3]
	(ii)	orientation; axes labelled (weight/kg and year/time or all years labelled);; plots (no errors); (allow line or bar graphs)	[4]
	(iii)	2005/2008; (allow ref to third or sixth year)	[1]
	(iv)	26.25; × 10 = 262.5 (262/263); OR 262.5 (262/263);;	[2]

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	Page 4			Syllabus	Paper	
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	(b)	(i)	hot/warm/tropical; high rainfall/wet/monsoon; free standing water; (allow savanna) (any two)		[2]	
		(ii)	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]	
	(i	iii)	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]	
	((ii)	any three valid jobs;; (3:2 2:1)		[2]	
	(b)	(i)	any three valid questions such as income, employ work skills ;;; layout;	ment, number of deper	ndents, relevant [4]	
	((ii)	allowed developments: such as sewage works; sr roads; paths for hiking; more jobs; other valid ideas		s/camps; small	

Restrictions: such as large hotels; restaurants; golf course; large roads; dumping wastes; other valid ideas; (max 4) [8] (Look for suitable qualifications in both parts/'/)