## MARK SCHEME for the October/November 2013 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 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2		2	Mark Scheme	Syllabus	Paper		
			IGCSE – October/November 2013	0680	43		
1	(a) (i)	anchovy is a major part of the world catch/eq; there will always be world demand anchovy/eq; the fish should always be available/eq; contributes to GDP; income spectrum on infrastructure/eq;					
	(ii)	13.5–14.0 and 1.5–1.6; 88.8–89.3 (%); allow error carried forward					
	(iii)	a su	itable summary line; four events marked on line;		[2]		
	(iv)	(iv) the fish catch drops after each event; figures to support this; and then recover					
	able to control [1]						
	(ii)	have	e to buy old boat and scrap it/take it out of anchovy f	ïshing/eq;	[1]		
	(iii)	<ul> <li>ii) net size: stops catching too many/young fish before they can breed/eq; length of fish: helps maintain breeding stock/eq; quota: only a sustainable/eq portion of fish taken/eq; fishing days: helps prevent illegal fishing/enforcing quota system/prevent overfish to mating season/eq;</li> </ul>					
	(iv)	size	of the net overall/shape of holes/eq, e.g. diamond s	hape; AVP;	[1]		
	(v)	fishery protection/patrol boats; inspection of fishing gear/nets; inspecting fish cauge record all fish catches/sticking to quota; use of GPS/satellite to track boats; fines illegal acts/eq; impound boats; remove license;					
	(c) (i)		much fish to process at once; so some may not be working; storage problems;	processed proper	rly/go rotten/eq; <b>[2]</b>		
	(ii)	diffic	cult to inspect every catch/easier to mix illegal fish w	ith legal ones/eq;	[1]		
	(iii)		ermen: safer working as more time off; still able t pping quickly; time for repairs to boat; fishing gear;	to fish to the quo	ota; stops price		
		for	processors: less storage problems; do not have to w night work/eq; fish can be processed with ning/maintenance;	-			
	(d) (i)	5.5 r	months/eq;		[1]		
	(ii)		estimate the number of fish/eq; so can work out a n to start fishing;	a quota; number	of fishing days; [1]		
	(iii)	X = :	stop fishing /closed season starts/eq;		[1]		

Page 3		ge 3	3 Mark Scheme	Syllabus	Paper			
			IGCSE – October/November 2013	0680	43			
	(e)	(i)	get very tired; so have more injuries; men overboard/drowning; dangerous with boats;					
		(ii)	you still catch your quota/eq; so you should ma rest/see family/safer working; AVP;	y; more time to <b>[2]</b>				
		(iii)	150 and 260;	[1]				
		(iv)	highest pay: Nina (260/5 = 52); lowest: Christobal (180/4 = 45);	[2]				
		(v)	very little chance of overfishing/eq; as each year fishing days/quota adjusted to fis available; no further increase in licensed boats possible; not much illegal fishin possible;					
					[Total: 36]			
2	(a)	(i)	supply protein/vitamin D/omega oils;		[1]			
		(ii)	more people would want to eat anchovy after the week; most people could afford to b anchovy; less ill health/eq/malnutrition in future; improved child health/reduce rickets;					
		(iii)	) fish need preserving/chilling; transport has to be refrigerated; long di expensive/needs to be subsidised; not profitable;					
	(b)		no flooding as hardly any rainfall; no cold temps as coldest month is still 17 degree oo hot;					
	(c)	(i)	advantages: reduces further increase in shanty town for business; better use of land; reduced need for used; AVP;					
			disadvantages: risk of collapse of taller buildings; recreation space/green 'lungs' of city; may lead to max three marks for advantages or disadvantages of	overcrowding; more				
		(ii)	three questions related to people's views;;; clear que Can you afford to live here? Do you have more cheap? Other questions related to quality of life.					
		(iii)	idea of same number of people in each district; eo selected at random/other selection method describe	•	es and females; <b>[2]</b>			
		(iv)	orientation (bar chart); axes labelled; key; plots;		[4]			
		60	many people could see the cost of housing was low	or from nowononor				

(v) many people could see the cost of housing was lower (from newspapers/adverts); some people can still not afford them/eq; could not move for work; family reasons, so the policy did not help them;

[Total: 24]