## MARK SCHEME for the October/November 2008 question paper

## 0600 AGRICULTURE

0600/03

Paper 3 (Extended Theory), maximum raw mark 80

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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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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

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UNIVERSITY of CAMBRIDGE International Examinations

	Page 2		Mark Scheme		Paper
			IGCSE – October/November 2	008 0600	03
1	(a) (i)	Reduce les	s light/condition D		[1]
	(ii)	Reduce/less	shade		[1]
	(b) (i)	Bright light			[1]
	(ii)	CO <sub>2</sub> warmth/tem	perature		[1] [1]
	(iii)	glucose/carl	oohydrate/O <sub>2</sub> /protein		[1]
	(c) (i)	root flower/shoot	/leaf/stem/tuber		[1] [1]
	(ii)	part approp	iate to crop		[1]
	(iii)	medicinal,	l, compost, roofing or building m seed production, ornamental work/studies, tourism if explain	use, production of alcohol	or Bi-ethanol, [2]
					[Total: 11]
2	(a) (i)	treatment,   	of suitable method, appropriate s oH indicator/paper parium sulphate eading result/use of colour char use of distilled water procedure ONLY 1 for litmus ctive result		[Max 3]
	(b) (i)	Lime or app	ropriate method/ground limestor	ne or chalk	[1]
	(ii)	2001-2002			[1]
	(iii)	Heavy rainfa	all/change of weather. NO mark	for weather	[1]
	(iv)	removal of c type of fertil	rop-heavy grazing, leaching, zer used		[2]
	mo floc	e bacteria – culation and	ents/base exchange better decomposition drainage of ANY three		[3]
					[Total: 11]

	Page	3	Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2008	0600	03
3			f a weed – any relevant ion of spread		[1] [1]
	lar	ge lea	rowth, deep roots, creeping spread/ af to block light to other plants, wing, easy reproduction. OWTE any 2		[2]
	(c) (i)	was	h off/leach/environmental impact		[1]
	(ii)	spre	ead on to other crops		[1]
			tes up space		
		-	t water for weeds or mechanical weeding, OWTE		[2]
	(e) (i)	abso	orbed into system of plant, moves or translocates		[2]
	(ii)	-	e of plant, time prior to harvest needed for pesticide to ept an appropriate time to break down e.g. 2 weeks TE	o break down,	[2]
					[Total: 12]
4	<b>(a)</b> ap	propria	ate description of asexual reproduction		[2]
		rm, w h hun	ret, mild wet windy, high temperature/ nidity		[2]
	U				[Total: 4]
5	(a) (i)	Pou	ltry. Goats. Fish or any appropriate		[1]
	(ii)		ck growth, good conversion rate, y to keep/manage OWTE		[2]
	sla	sh bu			
	an	y appr	ropriate cause 1 mark description 1 mark 2×2		[Max 4]
					[Total: 7]

	Page 4			Mark Scheme Syllab							Paper
				IGO	CSE – O	ctober/No	ovember 20	08	0600	)	03
6	(a)	1990	0-200	00							[1]
	(b)		-	crop or live dea one for	-						[2]
	(c)	phys	sical	of pests or or structura erb species	al effects	on the so	il				
				•	-		le explanati	on			[Max 2]
											[Total: 5]
7	(a)			ere rainfall o							[1]
				which it dra ams could		VTE					[1]
	(b)	(i)	traps	s air and wa	ater						[1]
		• •		ices soil dis harm to so			poration/ vy machiner	ry			[1]
	(c)			vs suspend ater to clea		cles to set	tle				[2]
			allov	vents algae w – gravity t bird droppi	to provid						[2]
											[Total: 8]
8	(a)		-		-	-	version, hea	llthy			
				ate meat cu roduction –			o drought, c	or any app	ropriate		[Max 3]
	(b)	.,	choo less		le chara n to heife	cteristic i er, no sex	d stock mprove stoo ual disease				[2]
		(ii)	gene	e compositi	on expi	ression of	genotypes				[2]
	(c)	grov	vth a	nd re-cross	sing the r	next gener	t v crossing ration OWT				[4]
		IT CO	ontus	ed but good	as descri	iption of ci	ross breedir	ng and hyb	oria vigour g	iven	[Max 2]
											[Total: 11]

Page 5		Mark Scheme	Syllabus	Paper		
		IGCSE – October/November 2008	0600	03		
9 (a)	<ul> <li>idea vegetable more intensive less space lower cost – less fencing needed goats difficult to keep in OR accept any three points that are considered to be relevant and are justified.</li> </ul>					
(b)	-	inputs/outputs ´one for reason		[2]		
(c)		or workings shown ore investment less profit		[2]		
(d)	good yea	ffects of disease, drought or poor market prices ars/bad years/Long term investment for idea and 2 marks for explanation idea		[4] [Total: 11]		