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

## 0600 AGRICULTURE

0600/02

Paper 2 (Core Theory), maximum raw mark 80

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.

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

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	Page 2				Mark Schen	Syllabus	Paper		
					GCSE – October/Nov	vember 2008		0600	02
1	(a)	(i) eggs / milk;							[1]
		(ii)	(ii) dung / animal manure / fertiliser / power / wool / fibre / feathers;						
	(b)	catt							
	(6)	) cattle is the most popular meat; buffalo most eaten in Asia; equines similar everywhere;							
					pular in Africa;				[max 3]
	(a)	(:)	fich	/robbit/	noultry.		A nia	with valid recease	[4]
	(c)	.,		/ rabbit / ı			A pig	g with valid reason	[1]
		(11)		d growth i t life cycle	rate; e, quick turn around;	/	A lac	k of fat	[2]
									[Total: 8]
2	(-)			1.			۸ سار	voicel for 1 month	
2	(a)	(1)		ze thaw;			A ph	ysical for 1 mark	
				/ rivers; nical;					[4]
		(ii)	root	s penetra	te;				
			dead	d / organi	c matter forms humus	;, /	A ior	n exchange	[2]
	(b)	(i)	wate	er; air;					[2]
		(ii)	more	e humus .	/ organic matter;				
			more	e living th	ings;		A air		[1]
	(c)	c) distilled water / barium sulphate / universal indicator (BDH) /							
		sha	ike ar	nd leave /	compare colour with	chart;			[max 3]
									[Total: 13]
-									
3	(a)			n sun; om soil;	a gas called carbon a gas called oxygen	dioxide			[4]
	(b)	(i)	less	photosyr	nthesis due to less ligh	nt; I	R no	photosynthsis	
		(ii)	less	transpira	tion due to less heat;				[2]
		to gain a mark in both (i) and (ii) an explanation must be given							
	(c)	c) appropriate pest for named crop; (1)							
					ol named; detail given	; (2)			[3]
									[Total: 9]

	Ра	ge 3	Mark Scheme	Syllabu				
			IGCSE – October/November 2008	0600	02			
4	(a)	(i) shape of leaves / size of flowers / shape of tubers / plant decumbent rather than erect / tubers grow from runner rather than terminal / R size reference roots on tuber (and) runner in sweet potato; [max 2]						
		• •	dea of fission rather than fusion; dentical offspring / no variation;	A reference to on	ly one parent [2]			
			dea of tubers separating; each then grows new plants;		[2]			
	(b)		o / wet / rain; n / humid;		[2]			
	(c)		eaf growth; in building;	A increase plant g	growth [2]			
					[Total: 10]			
5	(a)	1 — 2 — 3 — 5 —	3 4 corr 4 3 corr	ect = 4 marks ect = 3 marks ect = 2 marks ect = 1 mark				
		6 —		ect = 0	[4]			
	(b)	sunflo	ower cake / maize meal;		[1]			
	(c)		n containing all food requirements; related to demands of animal;		[2]			
					[Total: 7]			
6	(a)	<ul> <li>toxic fumes / do not breathe in;</li> <li>A cover up nose and mouth toxic to water life e.g. fish / do not let into water courses;</li> <li>danger to skin / wash hands after use;</li> </ul>						
	(b)	(i) s	pray will wash off before absorption;					
		(ii) s	pray gets elsewhere / damage other crops / wa	ste; R blown away	unless qualified [2]			
	(c)	appropriate weed; spreads by runners / stolons or seeds in wind; OWTTE						
					[Total: 7]			

	Page 4			Mark Scheme IGCSE – October/November 2008				S	yllabus 0600	Paper 02		
7	(a)	(i)	white	e because all chicks are white;						[1]		
		(ii)	DNA	IA / genes / chromosomes / sperm and egg;						[1]		
	(iii) a		а		A A			rk for gamet rk for F₁	es			
			Aa	Aa		Aa	Aa	allow		[2]		
	(b)		d gro		A		A resis	stance to dis	ease			
				nformation; naracteristics;					[3			
										[Total: 7]		
8	(a)	(i)	adva			y of spac	e / range for f	ood / cost if c	ualified i.e.	wire or fencing		
	need less chance of catching disease / parasitic worms; A carry out natural behaviour											
			disa	dvantage:	•			an harm neig	hbours' garc	len plots / theft		
		<i></i>								[2]		
		<ul> <li>(ii) rests grass / grass can regrow; controls diseases / pests from land e.g. worms;</li> </ul>						[2]				
	(b) concrete floor for cleaning;											
		block wall prevent wind; gutter to prevent water into run; iron roof for durability / less likely to catch fire; etc.						[3]				
(c) isolated / feathers ruffled / pale comb / smelly green o						droppings / la	ow egg prod	uction / loss of				
weight / blood in droppings / sneezing or runn						ning nose / drooping head; [max 2]						
	(d)	d) $\frac{10,000 \times 4}{200} = 200;$								[1]		
		2	200							[Total: 10]		
9	(a)	saw	/ hammer / sn	de / auger	le / auger / hacksaw / mattock / spirit l		spirit level <sup>.</sup>		[max 4]			
•	()	can	, na		uo / uugoi	, naonoa	.,			[		
	(b)	.,		recycled / r						[1]		
		(ii)	using	g valuable	wood reso	urces / vı	Inerable to te	rmites;		[1]		
	<ul> <li>(c) cost of fence related to added income; which enterprise makes most income;</li> </ul>											
	which enterprise most at risk without fence; goats fenced in involves more food and labour costs;							[max 3]				
										[Total: 9]		