

## **NOVEMBER 2002**

## **INTERNATIONAL GCSE**

## WARKSCHEME

MAXIMUM MARK: 70

SYLLABUS/COMPONENT: 0600/2
AGRICULTURE
(CORE)

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									:			
1.	(a) (i)	sub-s	ioil;						•			1
	(ii)	1. gro	wth of ro	oots;				esik.				1
				+ water; lves_rock			\$		<b>R</b> break	s do	wn rock	2
	(b)			example; umus in	a balanc	ed prop	ortion;				· · ·	2
	(c)	B; the	ime floc	culates /	breaks u	p the cla	ıy;	,=				2
		B; lim	e is alka	line;							v: 2	2
· ·		¥ <b>(.</b>	í		1	•			•.		•	[10]
2.	(a) (i)	plant (	<b>ગ</b> ;	-								1
	(ii)	necta enclos	ry /:scei sed parts	s;				*** .3				
			e stigma					,e		ny tv	VO	2
	(iii)	food s	torage /	spread o	of plant (a	isexual r	eproduc	ction) /	stability	;		1
	(iv)	nodule	∋s;									1
	(v)	bacter	ia;									1
	(b) (i)	transp	iration;								:	1
	(ii)		r surface	e area;								2
	(c) (i)	fungu	<b>S</b> ;									1
	(ii)	remov	e and b	urn /use	fungicide	;						1
	(d)	<b>Q</b> becau	se large	r leaves;	shade ou	ut weeds	; ;					
		P becau	se food	<b>or</b> reserve i	n rhizome	e; enable	es grow	th; <b>(no</b>	mark fo	or ch	oice)	2 [13]

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	•			
3.	(a)	(i) .	fork; hoe;	
			spade; R shovel	any two 2
		(ii)	do not leave them lying around / only use for correct purpose;	1
		(iii)	aeration;	
~			improve drainage; enables root penetration; any two	· · 2
	(b)		aspect - exposure to wind; nature of soil - drainage / fertility / pH; shade - light availability;	
<b>:</b> :			slope - water retention / water availability; any three	3
	(c)	(i)	appropriate fruit condition eg.hardness ; colour ; moisture content ; leaf ; plant yellowing any two	2
		(ii)	method of harvest - combine harvester; cut with panga; hand pick; harvest or post harvest detail - grain separation; dry;	· <b>2</b>
		(iii)	damp; effective storage detail eg. off ground; fungi; store in dry;	
			pests e.g weevil; traps / baffles / baits;	2 [14]
4.	(a)	(i)	growth / tissue development / cell development; fats:	2
		(ii)	water / roughage / fibre;	1
		(iii)	respiration;	• 1
		(iv)	bones / teeth /egg shell;	1
		(v)	chlorophyli;	1
	(b)		called photosynthesis; energy from sun; joins CO <sub>2</sub> + H <sub>2</sub> O;	
			catalyst chlorophyll;	4
	(c)	(i)	tubers are bulk so fills animal up / low ratio of protein and carbohyd	rate to bulk;1
		(ii)	grains have high protein / high energy;	1 [ <b>12</b> ]

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<b>5</b> .	(a) (i)		R good conductor	of heat
		does not harbour pests low fire risk;	any two	2
	(ii	) hens can escape via ne	est box and roof / egg box inaccessible;	1
	(ii		o re-grow; ed; isolation of sick poultry, control breeding	any two 2
	(b)		ng waste energy efficient; s in droppings used by pond life which are foo R droppings food	
ė.			and space; afer from predators; any one	1
		disadvantage - dropping risk of p	gs breakdown accelerates stagnant conditions parasites / disease spread; water pollution	s; any one 1
	(c)	turkeys not such good la turkeys bigger so eat mo idea that turkeys less ec	ore;	1 [8]
6.	(a) (i)	A. sperm duct / vas defe B. urethra;	erens	2
	(ii	) medium for sperm; activate sperm; lubrication;	any one	. 1
	(b)	<ol> <li>isolation;</li> <li>spray cord / ensure st</li> </ol>	uckling / clear nostrils;	2
	(c)	provides high energy fo	od / antibodies.	1
	(d)	1. Less robust / well-gro 2.quicker recovery / mo		2
	(e) (i)	32+32+32+4=100 64 68;		1
	(ii	) 2003; July carrying capacity is 18	x 5=90;	2
÷	(ii	) compaction; erosion; injury to plants;		
			R references to animals any two	2 [1 <b>3]</b>