CAMBRIDGE
INTERNATIONAL EXAMINATIONS

Nhridge Com

NOVEMBER 2002

INTERNATIONAL GCSE

WARKSCHEME

MAXIMUM MARK: 70

SYLLABUS/COMPONENT: 0600/2

AGRIGULTURE

(CORE)

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Page 1	Mark Scheme		Syllab	· A	l
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			IGUSE E	xaminations - N	ovember 2002	0600	Day	
			And Andrews				W. Papac	Mbrio
(a)	· (i)	sub-se	oil;					
	(ii)	1. grov	vth of roots;		٠.ي -			1
			0 ₂ / SO ₂ + wate d <u>dissolves</u> roo		3	R breaks	s down rock	2
(b)		key as example clay / humus i		proportion;			2
(c))	B; the li	me flocculates	/ breaks up th	ne clay;	,=	,	2
		B; lime	e is alkaline;					2 [10]
(a)	(i)	plant C) ;	•		•		1
	(ii)	nectar enclos	colourful petal y / scent; ed parts; stigma;	ls;		 ar	ny two	2
	(iii)	food st	orage / spread	of plant (ase)	kual reproduct	ion) / stability;		1
	(iv)	nodule	s;					1
	(v)	bacteri	a;					1
(b)	(i)	transpi	ration;					1
	(ii)	Q ; larger	surface area;		· · · · · · · · · · · · · · · · · · ·			2
(c)	(i)	fungus						1
	(ii)	remove	e and burn /use	e fungicide;				1
(d)) C) becaus	se larger leaves	s; shade out w	reeds;			
	F	P becaus	or se food reserve	e in rhizome; e	nables growth	; (no mark fo	r choice)	2 [13]

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Page 2	Mark Scheme		Syn	2	er
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3. (a) (i) fork: hoe: R shovel spade; do not leave them lying around / only use for correct purpose; (ii) 1 (iii) aeration; improve drainage; enables root penetration; 2 any two aspect - exposure to wind; (b) nature of soil - drainage / fertility / pH: shade - light availability: slope - water retention / water availability; 3 any three appropriate fruit condition eg.hardness; colour; moisture content; (c) (i) leaf; plant yellowing 2 anv two method of harvest - combine harvester; cut with panga; hand pick; (ii) harvest or post harvest detail - grain separation; dry; 2 (iii) damp; effective storage detail eq. off ground: fungi; store in dry; pests e.g weevil; traps / baffles / baits; 2 [14] growth / tissue development / cell development: (a) (i) 2 fats; (ii) water / roughage / fibre; 1 (iii) respiration; 1 (iv) bones / teeth /egg shell; 1 (v) chlorophyll; 1 (b) called photosynthesis; energy from sun; joins $CO_2 + H_2O$; catalyst chlorophyll; 4 tubers are bulk so fills animal up / low ratio of protein and carbohydrate to bulk;1 (c) (i) (ii) grains have high protein / high energy; [12]

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5 .	(a)	(i)	long lasting;		R good conductor of he	de.com
			does not harbo low fire risk;	our pests;	any two	.col
	٠	(ii)	hens can esca	pe via nest box and roof / egg	g box inaccessible;	1
		(iii)		grass to re-grow; controlled; isolation of sick po	oultry, control breeding any two	2
á.	(b))	advantage	recycling waste energy effici nutrients in droppings used be saves land space;	ent; by pond life which are food for fish; R droppings food for fish	
				hens safer from predators;	any one	1
			disadvantage -	droppings breakdown accele risk of parasites / disease sp	erates stagnant conditions; pread; water pollution any one	1
	(c)		turkeys not suc turkeys bigger s idea that turkey		on; any one	1 [8]
6.	(a)	(i)	A. sperm duct a B. urethra;	/ vas deferens		2
		(ii)	medium for spe activate sperm lubrication;		any one	1
	(b)		1. isolation; 2. spray cord / e	ensure suckling / clear nostrils	;	2
	(c)		provides high e	energy food / antibodies.		1
	(d)		Less robust quicker recov	/ well-grown /ery / more young in given tim	R dies.	2
	(e)	(i)	32+32+32+4=1 64	00 68;		1
		(ii)	2003; July carrying capa	city is 18 x 5=90;		2
		(iii)	compaction; erosion; injury to plants			
	•		poor recovery		imals any two [13	2 3]