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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0600 AGRICULTURE

0600/02 Paper 2

Maximum mark 80

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

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

CIE is publishing the mark schemes for the November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 1		Mark Scheme	Syllabus
		IGCSE – NOVEMBER 2005	0600
(a)	4	million;	Carry
(b)	li	ve hedge/wire fence/walls of blocks, bricks or concrete	Morida
(c)	s	torage tanks/reservoir/dam; (any 2)	
(d)	n	nixed/organic/enclosed/rotational/monoculture/settled a	rable; (any 2)
	_	explanations as appropriate, do not allow more than one	20:

	` '		,	Se	
	(c)	storage	e tanks/reservoir/dam; (any 2)	1.	
	(d)	mixed/organic/enclosed/rotational/monoculture/settled arable; (any 2)			
		explan	ations as appropriate, do not allow more than once;		
		e.g.	more intensive use of land; crops and animals support each other; economy of scale; inputs greater so yield greater; legumes provide nitrogen; animals provide fertiliser;	[4]	
	(e)	AIDS/d	disease/famine/war;	[1]	
			АТОТ]	\L 9]	
2	(a)	evapoi	ration;	[1]	
	(b)	mecha	nical or splash/run-off or sheet/rill/gully; (any 2)	[2]	
	(c)	contou	r ploughing/terracing/barrages/diversion channels/close cropping; (any 2)	[2]	
	(d)	•	of water flow; I stone hitting banks;	[2]	
	(e)	rain pr	solvent for SO ₂ /CO ₂ or forms acid rain; ovides H+ ion for acid construction or acid dissolved/reacts with rocks; al statement - 1 mark only)	[2]	
	(f)	desert	very hot because of the high % of evaporation;	[1]	
			[TOTA]	L 10]	
3	(a)	(i)	as appropriate;	[1]	
		(ii)	as appropriate;	[1]	
		(iii)	as appropriate;	[1]	
	(b)	dig/plough; remove stones/level; rake to obtain tilth; rake level; add fertiliser/lime; (any 3, rake = 1 mark only)			
	(c)	for tub	eals shallow tilth; fine tilth; ers deeper tilth; coarser tilth; op indicated assume tuber	[2]	

[TOTAL 8]

Page 2	Mark Scheme	Syllabus	er
	IGCSE – NOVEMBER 2005	0600	82

4	(a)	correct	t labels e.g:	COM		
		R allov	v end of stomach to base of first loop; v from base of final up turn to just before opening of anus; v from base of first loop to start of caecum;	Cambridge		
	(b)	more carbohydrate/energy; more protein; (A more concentrates/less succulents for 1 mark)				
	(c)		n need increases with age/large increase in layers; norus need gets <u>slightly</u> less with age;	[2]		
	(d)	(i)	as appropriate;	[1]		
		(ii)	as appropriate;	[1]		
		(iii)	nasal discharge/loose droppings/blood in droppings/yellow dropping parasites seen; inflamed or red udder/clots in milk etc. (any 2)	gs/ [2]		
				[TOTAL 11]		
5	(a)	(i)	the sun;	[1]		
		(ii)	carbon dioxide; water;	[2]		
		(iii)	nitrates; A nitrogen;	[1]		
	(b)	(i)	correct name;			
		(ii)	correct name;	[2]		
	(c)	from m	nidway between emergence and flowering to just before flowering;	[1]		
	(d)	fertilise water;				
		preven	at any grazing; (any 2)	[2]		
_		40		[TOTAL 9]		
6	(a)	(i)	appropriate weed named;	[1]		
		(ii)	competes for light/nutrients/root space/harbours disease or pest; (a	ny 2) [2]		
	(b)	(i)	protective gloves/clothes/goggles/respirator;			
		(ii)	do not use in wind/place nozzle close to weeds;	[2]		
	(c)	(i)	nematode worm;	[1]		
		(ii)	no host; breaks cycle;	[2]		
				[TOTAL 8]		

20.
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[3]
[2]
[3]
[TOTAL 9]
[3]
[2]
[1]
[1]
[3]
[TOTAL 10]
[2]
any 2) [2]
nd is up; [2]
[TOTAL 6]
[TOTAL 80]