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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2008 question paper

0600 AGRICULTURE

0600/03

Paper 3 (Extended 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.

CIE is publishing the mark schemes for the October/November 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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			Syllabus Ann. Dan er 0600
	Page 2		Syllabus
		IGCSE – October/November 2008	0600 Page
1	(a) (i)	Reduce less light/condition D	and
	(ii)	Reduce/less shade	Tag
	(b) (i)	Bright light	[1]
	(ii)	CO ₂ warmth/temperature	[1] [1]
	(iii)	glucose/carbohydrate/O ₂ /protein	[1]
	(c) (i)	root flower/shoot/leaf/stem/tuber	[1] [1]
	(ii)	part appropriate to crop	[1]
	. ,		1.1
	(iii)	Bedding fuel, compost, roofing or building material medicinal, seed production, ornamental use, production investigative work/studies, tourism if explained	duction of alcohol or Bi-ethanol, [2]
			[Total: 11]
2	(a) (i)	Description of suitable method, appropriate soil collect treatment, pH indicator/paper barium sulphate reading result/use of colour chart use of distilled water	tion
		Max of 2 for procedure ONLY 1 for litmus 3 only if effective result	[Max 3]
	(b) (i)	Lime or appropriate method/ground limestone or chall	K [1]
	(ii)	2001-2002	[1]
	(iii)	Heavy rainfall/change of weather. NO mark for weath	er [1]
	(iv)	removal of crop-heavy grazing, leaching, type of fertilizer used	[2]
	mo	ease of nutrients/base exchange re bacteria – better decomposition culation and drainage	
		ef description of ANY three	[3]
			[Total: 11]

	Page 3			Mark Scheme	N.D OF	
	raye s			IGCSE – October/November 2008	Syllabus 0600	8
3	(a)			f a weed – any relevant ion of spread		W. PapaCambridge
	(b)	larg	je lea	rowth, deep roots, creeping spread/ of to block light to other plants, ving, easy reproduction. OWTE any 2		[2]
	(c)	(i)	wasl	h off/leach/environmental impact		[1]
		(ii)	spre	ead on to other crops		[1]
	(d)	less	s light	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)	_	of plant, time prior to harvest needed for pesticide ept an appropriate time to break down e.g. 2 weeks TE		[2]
						[Total: 12]
4	(a)	арр	propria	ate description of asexual reproduction		[2]
	(b)	warm, wet, mild wet windy, high temperature/ high humidity			[2]	
						[Total: 4]
5	(a)	(i)	Poul	ltry. Goats. Fish or any appropriate		[1]
		(ii)		ck growth, good conversion rate, y to keep/manage OWTE		[2]
	(b)		er cro sh bui	opping, over grazing, clearing steep ground		
	any appropriate cause 1 mark description 1 mark 2×2			ropriate cause 1 mark		[Max 4]

[Total: 7]

					2			
	Page 4			Mark Scheme IGCSE – October/November 2008			Syllabus	S er
				IGCSE	– October/No	ovember 2008	0600	280
6	(a)	199	90-200	00				ambric
	(b)			crop or livestod dea one for exp				M. Papa Cambridge
	(c)	phy loss	sical of he	of pests or dise or structural ef erb species in e n example <u>one</u>	fects on the so grassland	oil ole explanation		[Max 2]
								[Total: 5]
7	(a)			ere rainfall occu which it drains				[1]
				ams could be t				[1]
	(b)	(i)	traps	s air and water				[1]
		(ii)		ces soil disturt harm to soil st		-		[1]
	(c)	(i)		vs suspended ater to clear	particles to set	tle		[2]
		(ii)	allov	ents algae gro v – gravity to p bird droppings	rovide water p			[2]
								[Total: 8]
8	` ,		ropria	ate meat cut or	purpose	version, healthy to drought, or any	appropriate	[Max 3]
	(b)	(i)	choo less		haracteristic i heifer, no sex	od stock improve stock bas ual disease sprea		[2]
		(ii)	gene	e composition	expression of	genotypes		[2]
	(c)	gro	wth a	on of selecting nd re-crossing ed but goods d	the next gene	ration OWTE	d hybrid vigour given	[4] [Max 2]
								[Total: 11]

[Total: 11]

Page 5		Mark Scheme	Syllabus				
		IGCSE – October/November 2008	0600				
9	lower co goats dif	(a) 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.					
	(b) Y higher	inputs/outputs					

(b) Y higher inputs/outputs one for Y one for reason

[2]

(c) X reason or workings shown idea x more investment less profit

[2]

(d) Idea of effects of disease, drought or poor market prices good years/bad years/Long term investment 2 marks for idea and 2 marks for explanation idea

[4]

[Total: 11]