## 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.

Page 2		2	Mark Scheme	Syllabus
i age z		•	IGCSE – October/November 2008	0600 Page
1	(a) (i) (ii)		uce less light/condition D	Syllabus A. A. A. Per 0600 Property of the syllabus of the syl
	(b) (i)	Brigh	nt light	[1]
	(ii)	CO <sub>2</sub> warm	nth/temperature	[1] [1]
	(iii)	gluco	ose/carbohydrate/O₂/protein	[1]
	(c) (i)	root flowe	er/shoot/leaf/stem/tuber	[1] [1]
	(ii)	part a	appropriate to crop	[1]
	(iii)	medi	ding fuel, compost, roofing or building material cinal, seed production, ornamental use, produstigative work/studies, tourism if explained	uction of alcohol or Bi-ethanol, [2]
				[Total: 11]
2	(a) (i)	treatr Max	cription of suitable method, appropriate soil collectic ment, pH indicator/paper barium sulphate reading result/use of colour chart use of distilled water of 2 for procedure ONLY 1 for litmus y if effective result	on [Max 3]
	(b) (i)	Lime	or appropriate method/ground limestone or chalk	[1]
	(ii)	2001	-2002	[1]
	(iii)	Heav	yy rainfall/change of weather. NO mark for weather	r [1]
	(iv)		oval of crop-heavy grazing, leaching, of fertilizer used	[2]
	mo	re bac	of nutrients/base exchange steria – better decomposition on and drainage	
			cription of ANY three	[3]
				[Total: 11]

[2]

[2]

[2]

Page 3	Mark Scheme	Syllabus	٦
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		S.	

3 (a) Name of a weed – any relevant Description of spread

(b)	strong growth, deep roots, creep	ing spread/			
	large leaf to block light to other plants,				
	fast growing, easy reproduction.	OWTE any 2			

(c) (i) wash off/leach/environmental impact [1]

(ii) spread on to other crops [1]

(d) plant takes up space less light water for weeds easier for mechanical weeding, OWTE

(e) (i) absorbed into system of plant, moves or translocates [2]

(ii) Age of plant, time prior to harvest needed for pesticide to break down, Accept an appropriate time to break down e.g. 2 weeks OWTE

[Total: 12]

4 (a) appropriate description of asexual reproduction [2]

(b) warm, wet, mild wet windy, high temperature/ high humidity [2]

[Total: 4]

5 (a) (i) Poultry. Goats. Fish or any appropriate [1]

(ii) Quick growth, good conversion rate, easy to keep/manage OWTE [2]

(b) Over cropping, over grazing, clearing steep ground slash burn any appropriate cause 1 mark description 1 mark 2×2

[Max 4]

[Total: 7]

[Total: 11]

Syllabus

		3-		IGCSE	<ul><li>October/N</li></ul>	ovember 2008		0600	Stor 1	
6	(a)	199	90-20	00					and Carry	Br.
	(b)		_	crop or livestoc dea one for exp	-					[2]
	(c)	phy los:	sical of h	of pests or dise or structural eff erb species in c	ects on the sorassland	oil ble explanation			ſΜa	ax 2]
		One	<u>,</u> 101 c	ш схатріс <u>опс</u>	Tor arry Suita	bic explanation			[Tota	-
7	(a)			ere rainfall occu which it drains						[1]
				ams could be b						[1]
	(b)	(i)	trap	s air and water						[1]
		(ii)		ices soil disturb harm to soil str		•				[1]
	(c)	(i)		vs suspended pater to clear	particles to se	ettle				[2]
		(ii)	allov	rents algae grov w – gravity to pr bird droppings	ovide water p					[2]
									[Tota	l: 8]
8	(a)	app	propri	ate meat cut or	purpose	nversion, health to drought, or a	-	۵	ſΜa	ax 3]
		eas	у гер	roduction – nai	uy , resistant	to drought, or a	апу арргорпак	<del>J</del>	livia	ıx əj
	(b)	(i)	choo less	risk of harm to	naracteristic heifer, no sex	od stock improve stock xual disease sp				ro1
		<i>(</i> 11)		TE any <b>TWO</b> ຣເ 						[2]
		(ii)	gene	e composition	expression o	τ genotypes				[2]
	(c)	gro	wth a	on of selecting nd re-crossing ed but goods d	the next gene	_	and hybrid vigo	our given	[Ma	[4] ax 2]

Mark Scheme

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- (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 one for Y one for reason

[2]

(c) X reason <u>or workings shown</u> 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]