CAMBRIDGE

NTERNATIONAL EXAMINATIONS

Mbride Con

## **NOVEMBER 2002**

## INTERNATIONAL GCSE

## MARK SCHENE

**MAXIMUM MARK: 40** 

SYLLABUS/COMPONENT: 0610/5

BOLOGY

(PRACTICAL)

		- 1
Page 1	Mark Scheme	Sylla
<del></del>	IGCSE Examinations – November 2002	0610

(a) (i)	Drawing:	(max 4 marks) 8cm or more space used; clear sharp outline; axillary / lateral, buds / shoots, shown; scale leaves shown; terminal bud / attachment to parent plant, shown; lenticels shown;		3
	Labels:	(max 1 mark) (axillary / lateral) bud / shoot / eye; scale / reduced , leaf; terminal bud / attachment to parent plant;	max	5
(ii)	asexual repro	rennation / storage; oduction; entical offspring; h / products of photosynthesis;	max	2
(iii)	(axillary / tern (reduced) lea lenticels;		max	1
(b) (ii)	froth / gas / b vigorous read	ubbles , rose in boiling tube; ction;		2
(d) (i)	correct plotting	d, units in mm; ng (refer to (b)(i) and (c)); ater then 4 cube level; d;		4
(ii)	chopped cuts releases mor more contact Y / H <sub>2</sub> O <sub>2</sub> , is s gas / oxygen	·	max	4
(e) (i)		nt of chopped / number and size of cubes of , potato; temperature as experiment before using potato; y of Y;	max	3
(ii)	•	at this temperature); been denatured (by boiling);		2

[Total : 23]

Page 2	Mark Scheme	Syn	· A	er
	IGCSE Examinations – November 2002	061	80	

2 (a) (i) (½ mark per label, round up) label lines and labels correct for incisor, canine, premolar, molar;;

2

(b)

	incisors	canines	premolars	molars
upper	4	2	4	6
lower	4	2	4	6

1

(c)

	incisors	canines	premolars	molars
upper	4	2	4	4
lower	4	2	4	4

or refer to Fig. 2.1 if different

1

(d) candidate has no wisdom teeth / converse;
 wisdom teeth found, after puberty / between 16 – 25 years / AW;
 tooth / teeth, extracted / absent from birth;
 accounts for no differences;;

max 2

(e) (i) clear sharp outline; incisor has , chisel / square / rectangular , shape; canine has conical shape;

3

(ii) incisor tip , flat / broad , and thin; incisor cuts; canine tip pointed; canine , seizes / tears / rips;

(f) (i)  $100 \text{mm}^2 / 1 \text{cm}^2$ , approx. (allow 80 - 144 / 0.8 - 1.44);

1

(ii) large surface area for , grinding / crushing; uneven cusps help , grinding / crushing; breaks open , cells / tissues / plant cells; releasing , cell / tissue , contents for digestion;

max 3

[Total: 17]