

NOVEMBER 2002

INTERNATIONAL GCSE

MARK SCHEME MAXIMUM MARK: 40 SYLLABUS/COMPONENT: 0610/5 BIOLOGY (PRACTICAL)

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1

(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;		
	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 plottin	d, units in mm; ng (refer to (b)(i) and (c)); ater then 4 cube level; d;		4
(ii)	chopped cuts releases more more contact Y / H ₂ O ₂ , 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)	no reaction (a	at this temperature); been denatured (by boiling);		2

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2 (a) (i) (½ mark per label, round up)

label lines and labels correct for

incisor, canine, premolar, molar;;

2

(b)

i .	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

incisor has , chisel / square / rectangular , shape; canine has conical shape;

carine nas comoar snape,

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]