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**JUNE 2003** 

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0610/01

BIOLOGY Paper 1 (Multiple Choice) Page 1 Mark Scheme IGCSE EXAMINATIONS – JUNE 2003

ge 1	IG	Mark Sch CSE EXAMINATION		Syllabu 0610 Key
	Question Number	Key	Question Number	Key
	1	В	21	
	2	Α	22	D
	3	В	23	D
	4	D	24	С
	5	В	25	D
	6	Α	26	D
	7	D	27	С
	8	Α	28	В
	9	Α	29	D
	10	В	30	В
	4.4		24	
	11 12	C D	31 32	A C
	12	C	33	C
	13	B	34	C
	14	C	35	C
	10	•		<u> </u>
	16	Α	36	D
	17	D	37	Ā
	18	С	38	Α
	19	С	39	В
	20	D	40	Α

TOTAL 40



INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 70

SYLLABUS/COMPONENT: 0610/02

BIOLOGY Paper 2 (Core)

Page 1	Mark S		Syllabu 🔗
	IGCSE EXAMINAT	ONS – JUNE 2003	0610
(a)	excretion;		Syllabu 0610 notion
	growth;		
	movement;	ignore - locon	notion
	nutrition;	ignore - feedi	
	reproduction;		
	sensitivity/irritability;		
	Accept descriptions Any three – 1 mark eacl	h	[3
(b)	put mud in muslin bag/e	equivalent – workable app	paratus;
	suspend over limewater bicarbonate indicator;	r/calcium hydroxide soluti	on/hydrogencarbonate/
	in sealed container;		
	incubate/leave for 12+ h	nours;	
	look for limewater to go carbon dioxide released	cloudy/milky/white/hydro I indicates respiration;	gen carbonate to go yello

reference to use of control;

Apply pattern of mark scheme to alternative approaches e.g. release of heat from or use of oxygen for respiration.

Credit annotated diagrams Any four – 1 mark each

[4]

Total [7]

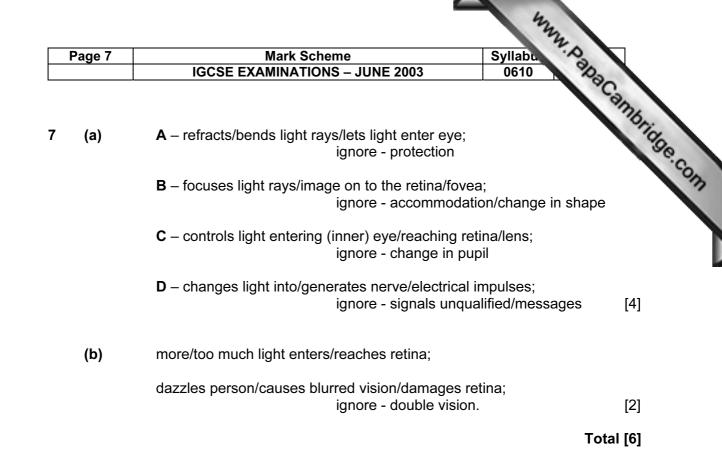
Page 2	2	Mark Scheme IGCSE EXAMINATIONS – JUNE 2003	Syllaba 0610	
(a)	(i)	<b>X</b> – stigma/carpel;	Syllaba 0610 Aparca	mb
		Y – anther/stamen;	•	
	(ii)	small/insignificant "petals"/flowers "open"; do not prevent wind access to anthers/stigma/polle	n;	
		stamens/anthers hang outside of flower/petals; to release pollen into wind/air;		
		stigma feathery; trap/filter pollen (from air);		
		stigma hangs outside flower/petals; to catch pollen (in the wind);		
		Any feature plus explanation – 1 mark each		[2]
	(iii)	no smell/scent;		
		no bright colours of petals/flowers/coloured green;		
		no nectar/nectary;		
		inconspicuous shape/size of flower/petals;		
		dry/dusty pollen;		
		large quantities/smaller size pollen;		
		Also features listed in <b>(ii)</b> above but <b>not</b> given in candidate's response to <b>(ii)</b> Any two – 1 mark each		[2]
(b)	(i)	southwest;		[1]
	(ii)	most fruit found to north and east; apply en	ror carried forward	[1]
	(iii)	distribution of fruit on branches;		
		distribution of branches on tree;		
		animals feed on/collect fruits from one region arour	nd tree;	
		other valid biological suggestions; ignore -	human intervention.	
		Any one – 1 mark		[1]

Pa	age 3		Mark Scheme Syllabu	S.
		[	IGCSE EXAMINATIONS – JUNE 2003 0610	Pac
	(a)	(i)	<b>C</b> /(i) alongside a relevant arrow;	ambrid
		(ii)	<b>D</b> /(ii) alongside a relevant arrow;	MMM. PapaCambridg
		(iii)	P/(iii) alongside a relevant arrow;	[1]
		(iv)	<b>R</b> /(iv) alongside a relevant arrow;	[1]
			If in any section more than one label is given all of that labe	el must be correct
	(b)	(i)	less/no (trees/leaves) to photosynthesise;	
			more carbon dioxide in air/less removed from air;	
			no/less (leaves/wood) to decay;	
			Any two – 1 mark each	[2]
		(ii)	less (leaves to) transpire/evaporation of water/evapotransp	iration;
			less roots/plants to absorb water (from deep layers);	
			less water v/water vapour in air/less rainfall;	
			Ignore - refs to floods/droughts/erosion/desertification.	
			Any two – 1 mark each	[2]
				Total [8]

Pa	ige 4		Mark SchemeSyllabuIGCSE EXAMINATIONS – JUNE 20030610	
	(a)	(i)	A – nucleus/nuclear membrane;	aCambridge.c.
			<b>B</b> – cytoplasm;	1. 9e.
		(ii)	label <b>C</b> clearly linked to a cell membrane in each cell;	[1]
	(b)	(i)	has cilia (on one surface/end of cell); ignore - hair	
			to move mucus; reject - trap bacteria/dust, etc.	[2]
			Credit valid references to goblet cells and function of producing muc	
		(ii)	has haemoglobin/no nucleus/biconcave;	
			transport oxygen;	[2]
	(c)	(i)	movement of molecules/particles/ions;	
			down concentration gradient/from higher to lower concentration;	[2]
		(ii)	movement of water (molecules);	
			across/through partially/semi/differentially/selectively permeable membrane.	[2]
			То	tal [11]

Page 5	Mark Scheme	Syllabu A
	IGCSE EXAMINATIONS – JUNE 2003	0610 2020
		Syllabu 0610 Bhacambridge.co
i (a)	<u>mitosis;</u>	Title
	diploid;	·co
	<u>meiosis;</u>	
	haploid;	
	gametes;	[5]
(b)	use of correct symbols/ <b>X</b> and <b>Y</b> ;	
	parent genotypes shown;	
	gamete genotypes shown;	
	offspring genotypes shown;	
	phenotypes for both sexes identified.	
	parent genotype wrong – max 3	
	Any four – 1 mark each	[4]
		Total [9]

Ρ	Page 6		Mark Scheme	Syllabu	·A
			IGCSE EXAMINATIONS – JUNE 2003	0610	10ac
					am
	(a)		top left box to 2 <sup>nd</sup> right box;		Tig
			2 <sup>nd</sup> left box to top right box;		W. Papacambrio
			bottom left box to bottom right box;		[3]
	(b)	(i)	label to colon/large intestine;		[1]
		(ii)	label to liver; re	eject - gall bladde	r [1]
		(iii)	label to liver;		[1]
		(iv)	label to pancreas; re	eject - small intest	tine. [1]
					Total [7]



Page	Mark Scheme	Syllabu 🔗
	IGCSE EXAMINATIONS – JUNE 2003	0610 20
		Syllabe 0610 s/sugars/amino acids; e;
8 (a)	(translocation) is movement of soluble materials.	/sugars/amino acids;
	from supply to demand/clearly identified example	e;
	in phloem;	
	(transpiration) is diffusion/loss of water vapour/e	evaporation of water;
	from leaves/through stomata to atmosphere;	
	down concentration gradient;	
	Any four – 1 mark each	
(b)	leaves lose water;	
(6)		
	water moves/passes/is drawn up/ref to transpira	ition stream;
	up stem/leaf stalk;	
	through xylem/vessels;	
	(dye) dissolved/carried in water.	
	Any four – 1 mark each	
		Total

				Anna Anna	
	Page 9		Mark Schem	e Syllabu Syllabu	
L		[	IGCSE EXAMINATIONS	- JUNE 2003 0610 0800	Thidde com
9	(a)	(i)	light/sunlight (energy);	ignore - solar	Tidge.co
		(ii)	chemical (energy);	ignore - potential	[1]
	(b)	(i)	bacteria/fungi;	ignore - decomposers/saprophytes	[1]
		(ii)	heat/thermal (energy);		[1]
	(c)		energy is not passed back to not recycled/OWTTE.	the sun/grass/producer/	[1]
				Tota	I [5]



INTERNATIONAL GCSE

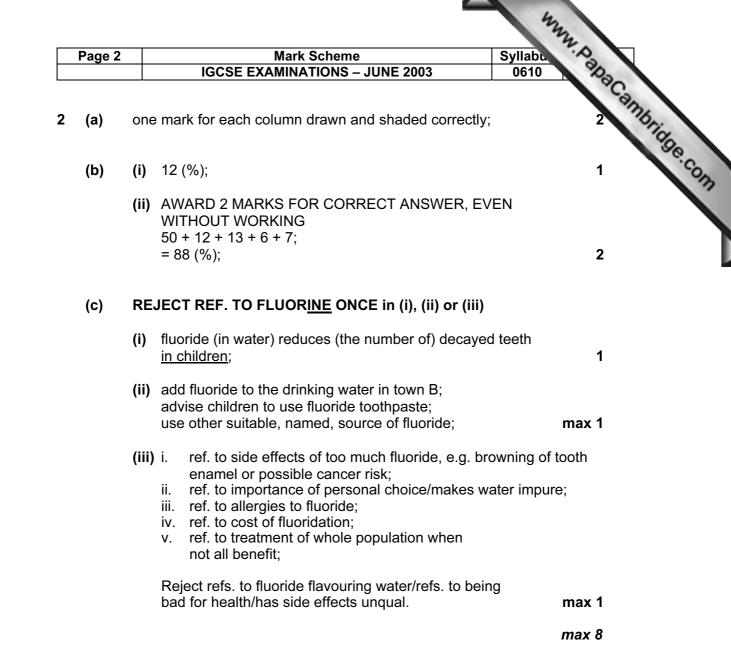
MARK SCHEME

MAXIMUM MARK: 70

SYLLABUS/COMPONENT: 0610/03

BIOLOGY Paper 3 (Extended)

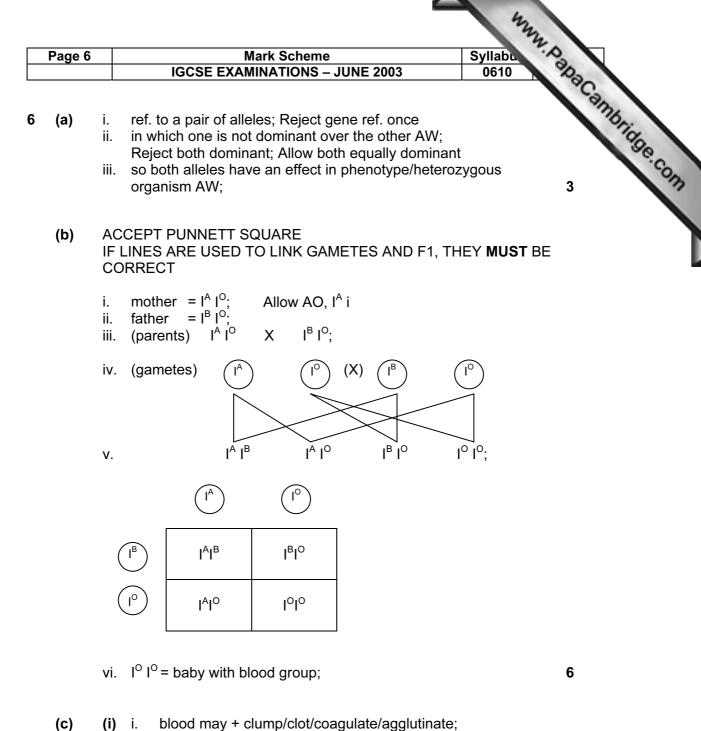
1 Mark Scheme Syllabu	· Q
IGCSE EXAMINATIONS – JUNE 2003 0610	Da
1       Mark Scheme       Syllabu         1       IGCSE EXAMINATIONS – JUNE 2003       0610         one mark for each part (drawn) and labelled correctly:       renal artery;         urethra;       urethra;         ureter;       one mark for quality of drawing;         MAX       2 FOR LARELLING "ETHMPS" ONLY	
renal artery; urethra; ureter;	
one mark for quality of drawing; MAX. 2 FOR LABELLING "STUMPS" ONLY	4
water;	
urea; Allow nitrogenous waste uric acid;	
salts or minerals or named salts; Allow vitamins	
hormones; Reject 'waste products unqual.'/'ions unqual.' <b>m</b>	ax. 3
i. ref. to blood enters machine from patient AW;	
(ONLY CREDIT ONCE) ii. ref. to pump;	
iii. blood passes along + dialysis tubing AW/visking tubing/cellul	ose
or cellophane tubing; iv. ref. to tubing AW being semi-permeable/selectively permeable poting as a filter AW:	le/
acting as a filter AW; v. ref. to surrounding liquid;	
vi. containing + some salts/glucose/no urea;	
<ul><li>vii. ref. to fluid has same O. P. as blood;</li><li>viii. waste materials/excess materials + pass from blood;</li></ul>	
ix. ref. to <u>diffusion;</u>	
x. ref. to bubble trap/counter flow;	
<ul> <li>x. 'cleaned' blood returns + to patient's circulation/body AW;</li> <li>(ONLY CREDIT ONCE)</li> </ul>	ax. 4
(i) ref. to internal environment;	
maintained (at constant level)/regulated/balanced;	2
<ul> <li>(ii) ref. to maintaining level of named substance in blood; method outlined, e.g. filtration/reabsorption/osmosis/diffusion</li> </ul>	ı; <b>2</b>
(iii) suitable organ named;	
named substance levels maintained; ref. to mechanism for maintaining constant level;	3



Page 3			Mark Scheme Syllab				
			IGCSE EXAMINATIONS – JUNE 2003 061	D Da			
(a)			giving the organism two names; enus and <u>species;</u>	bundansible			
(b)	(i)	ref.	<i>ulerpa</i> grows at twice their rate AW; to competition (for light/CO <sub>2</sub> /space for attachment/other p for AW); Reject refs. to O <sub>2</sub>	blausible <b>2</b>			
	(ii)	(ii) ref. to primary consumer/(organism) that feeds on plants/producers;					
	(iii)		to disease/predation or shortage of + food/herbivores/sea ulting in death/migration AW;	a urchins; <b>2</b>			
(c)			nlorine being + dangerous/poisonous/damaging to other ns/a pollutant;	1			
(d)	(i)	i. ii. iv. v. vi. vi.	ref. to possible effects on local food chains or food webs ref. to destabilization of the ecosystem; ref. to extinction (of other organisms); ref. to local fishing industry; ref. to importance of conservation; ref. to possible use of local species for medicines; ref. to effects on biodiversity;	s AW; max 2			
	(ii)	red red	to its ability to feed on <i>Caulerpa</i> ; Reject ref. to pest unqu uces competition between <i>Caulerpa</i> and local seaweeds; uces population of <i>Caulerpa</i> ; ws other species to grow again;				
	(iii)	ii. iii. iv.	it may eat other seaweeds as well; causing their extinction AW; ref. to no natural predators of the sea slug present AW; ref. to unbalancing + food chains/webs/ecosystem; ref. to introduction of diagonal				
		V.	ref. to introduction of disease;	max 2			
				max 14			

Page 4		Mark Scheme	Syllabu A
		IGCSE EXAMINATIONS – JUNE 2003	0610
4 (a) (	(i)	<ul> <li>(SIMILARITIES)</li> <li>i. ref. to exoskeleton;</li> <li>ii. ref. to jointed limbs AW;</li> <li>iii. no backbone/ref. to invertebrate;</li> <li>iv. both have segmented body;</li> <li>v. both members of the arthropod group; Accept ref. to stages of development, e.g. ecdy</li> </ul>	Syllaba 0610 vsis/instars max 3
	(ii)	<ul> <li>(DIFFERENCES)</li> <li><b>1 MARK FOR TABLE, MAX. 4 FOR DIFFERENCE</b> <ul> <li>i. table format with suitable headings;</li> <li>ii. insects have 3 pairs of legs + arachnids have 4</li> <li>iii. insects have wings + arachnids do not; Allow riv. insects have antennae + arachnids do not;</li> <li>v. insects have compound eyes + arachnids do not eyes;</li> <li>vi. insects have 3 parts to the body + arachnids have the insects have chelicerae/pincer-like jaws + insection in the spin webs + insects do not; Allow instable be social + arachnids are not AW;</li> </ul> </li> </ul>	pairs; efs to ability to fly ot/ref. to simple ave 2 parts; sects do not;
(b)		<ul> <li>i. named insect;</li> <li>ii. ref. to variation AW;</li> <li>iii. due to sexual reproduction/mating;</li> <li>iv. ref. to mutation;</li> <li>v. variation/mutation + leads to differential surviva</li> <li>vi. suggestion for environmental change, e.g. temp available;</li> <li>vii. suggested change to insect, e.g. thicker cuticle</li> <li>viii. ref. to benefit of change to the organism;</li> <li>ix. ref. to survival of fittest/natural selection;</li> <li>x. favoured genes passed on to next generation A</li> </ul>	oerature, food , larger wings;
		x. favoured genes passed on to next generation A	\W; max 7 max 1

			yllabb 0610 pollution; lding mals;
Page 5		Mark Scheme S	yllabu 7.0
		IGCSE EXAMINATIONS – JUNE 2003	0610
			and a
(a)	ACC	EPT OTHER PLAUSIBLE ANSWERS	104.
	i.	ref. to unsuitable climate/temperature/rainfall/ref. to	pollution;
	ii.	ref. to natural disasters, e.g. flooding/drought;	Idin a
	iii.	water used for other purposes/diversion of rivers/bui dams/poor irrigation;	laing
	iv.	so plants are killed/poor germination/no food for ani	mals:
		(linked to i. or ii. or iii.)	
	٧.	next year's seeds eaten through need for food;	
	vi.	poor soil/lack of inorganic ions or fertiliser;	
	vii.	so plants do not grow well; (linked to vi.)	
	viii.	ref. to desertification/poor or thin soil;	N
	ix.	due to + deforestation/slash and burn; (linked to viii. ref. to lack of money + to buy seeds/fertiliser/pesticio	
	х.	import food;	100/11100111101 y/
	xi.	ref. to war/farm redistribution;	
	xii.	so there is no-one to harvest crops/too dangerous to	tend crops/no
		experienced farmers AW; (linked to xi.)	
	xiii.	ref. to urbanisation AW;	4
	xiv.	so there are fewer people to work the land/less land	to grow crops
	XV.	on; (linked to xiii.) ref. to increasing population requiring food;	
	xvi.	ref. to growth of + cash crops/monoculture/food for e	export (not
		suitable for local diet);	
	xvii.	ref. to selling of food reserves to + settle national de	bt/maintain
		economy;	
		ref. to pest damage/disease (in crops or stored food	);
	xix. xx.	heat causes fresh produce to rot quickly AW; lack of suitable land to farm/ref. to overgrazing;	
	xxi.	farmers poorly educated;	
		forests destroyed + so nothing to hunt/no food to col	llect;
	xxiii.	ref. to outmoded farm practices;	
	xxiv.	ref. to poor transport/distribution;	max 10
(b)	i.	ref. to <u>auxin;</u>	
	ii.	sprayed onto e.g. tomato flowers to induce fruit prod	luction;
	iii.	happens even if pollination has not occurred;	
	iv. v.	ref. to use of auxins in + weedkiller/herbicide; so crops have less competition;	
	v. vi.	ref. to effect (only) on broad leaved plants (so mono	cot crops
		unaffected);	
	vii.	ref. to use of hormones (e.g. cytokinin) in tissue cult	ure;
	viii.	to promote root and shoot formation/form a callus;	
	ix.	ref. to BST (bovine somatotropin);	
	x. xi.	used with cattle to increase milk production (linked to	(או ט)
	xi. xii.	ref. to growth hormone/testosterone; used to increase meat production;	
	XIII.	ref. to production of seedless fruit;	
	xiv.	ref. to promotion of seed germination;	
	XV.	ref. to production of short plants (to resist wind dama	age);
	xvi.	ref. to delaying fruit production/ripening;	_
	xvii.	ref. to increasing fruit yield AW;	max 5
			max 15



- ii. due to presence of <u>antigens</u> on (the surface of) blood cells;
- iii. and different antibodies present in other blood AW;
- iv. ref. to no clumping if donor blood group is group O; max 3
- (ii) i. placenta keeps the blood of mother and fetus separate AW;
  - ii. since the blood types could be different AW;
  - iii. but allows exchange of materials between mother and fetus AW;

max 15

3

				Syllaba 0610 NY FIVE FROM: to erectile tissue;
	Page 7		Mark Scheme	Syllabu
			IGCSE EXAMINATIONS – JUNE 2003	0610
				S
7	(a)	MΔ	RK FIRST FIVE PARTS AND FUNCTIONS GIVEN A	NY FIVE FROM
'	(a)			
		i.	penis + to insert sperm/semen + into vagina AW/ref.	to erectile tissue;
		ii.	<u>urethra</u> + to pass sperm/semen + through penis;	.63.
			Allow ref. to penis/ urethra + urine once;	77
		iii.	testis + to make sperm/testosterone;	urothro
		iv. v.	<pre>vas deferens/sperm duct + pass sperm from testis to epididymis + to store/mature/move + sperm;</pre>	ureunia,
			<u>scrotum</u> + contain testes/to keep testes at lower temp	perature than that
		•1.	of body AW;	
		vii.	prostate gland/seminal vesicles/cowper's gland + to p	produce seminal
			fluid AW;	5
	(1-)		i unf de environneire en	
	(b)	(1)	i. ref. to swimming;	
			ii. using tail; iii. ref. to passing through <u>cervix;</u>	
			iv. ref. to passing through <u>uterus/womb;</u>	
			v. enter an <u>oviduct/fallopian</u> tube;	
			vi. ref. to chemical sensor AW;	
			vii. ref. to <u>mitochondria</u> + energy;	max 4
			0,,	
		(ii)	•	
			ii. sperm penetrates egg <u>membrane;</u>	
			iii. ref. to use of enzymes/acrosome;	
			iv. head of sperm enters egg;	
			v. sperm <u>nucleus</u> and egg <u>nucleus</u> fuse;	
			vi. ref. to formation of <u>zygote;</u>	max 3
	(c)	i.	ref. to use of condom/femidom (during sexual interco	urse);
		ii.	ref. to abstinence from sexual intercourse;	
		iii.	ref. to screening of blood for transfusions/blood check	
		iv.	ref. to use of sterile needles (for injecting drugs)/don't	I Share Needles;
			Reject refs to clean needles;	
		v. vi.	ref. to maintaining one partner/not sleeping around; ref. to health education;	
			avoiding contact with blood + example;	max 3
		vii.	avoluing contact with blood ' chample,	ilian J

max 15



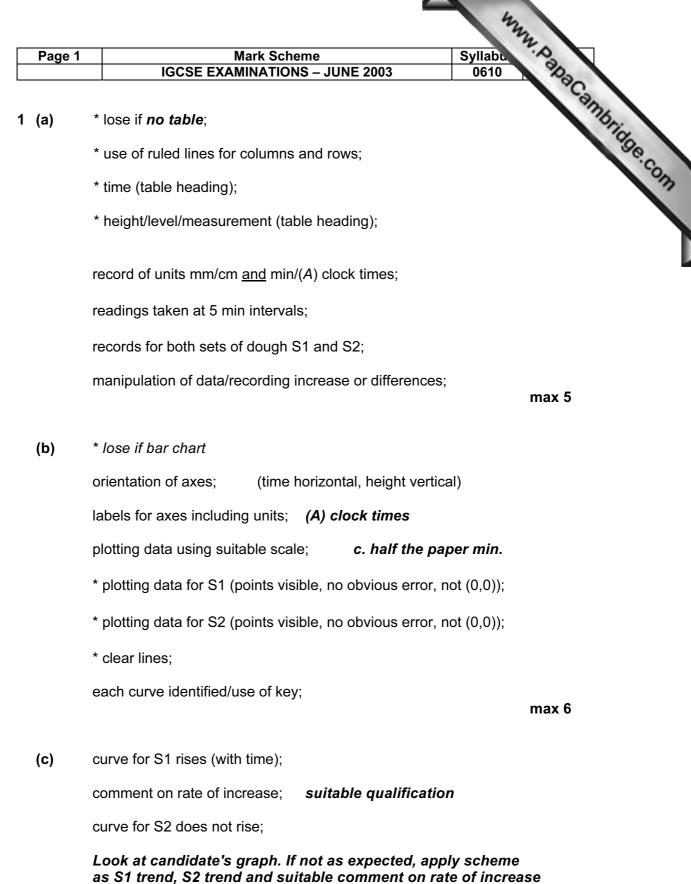
INTERNATIONAL GCSE

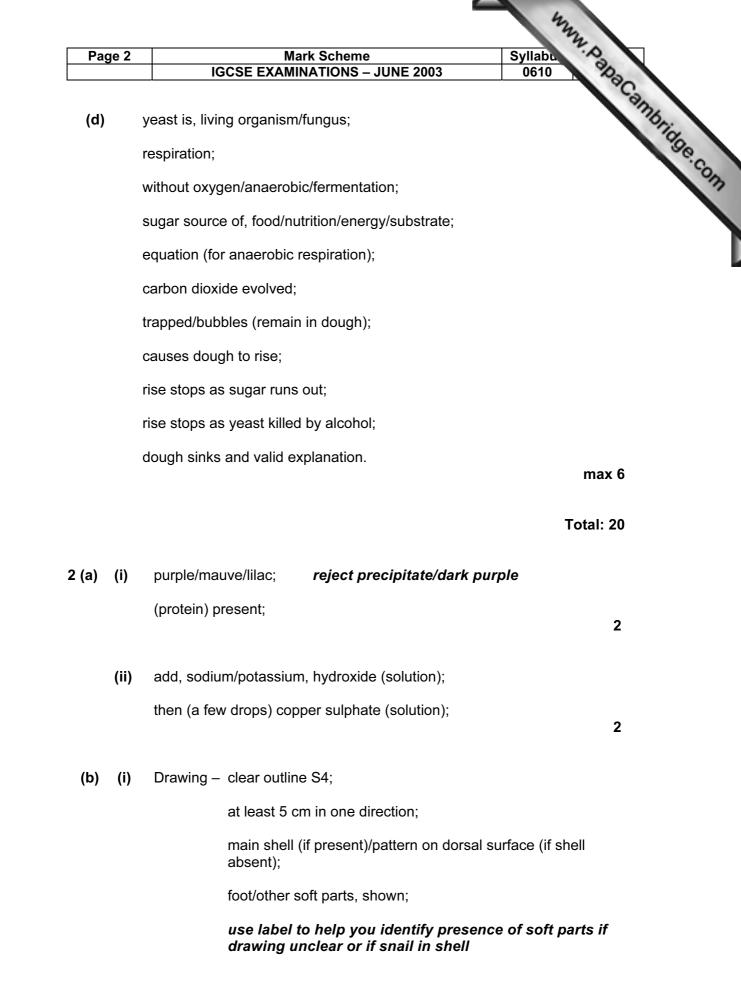
MARK SCHEME

MAXIMUM MARK: 40

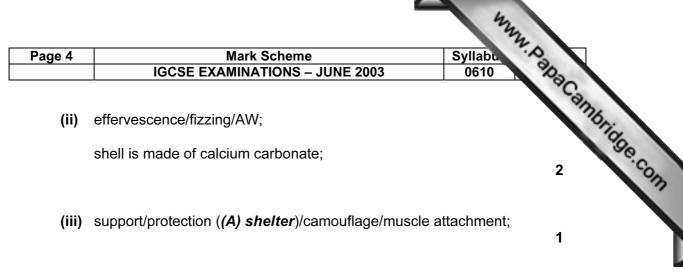
SYLLABUS/COMPONENT: 0610/05

BIOLOGY (Practical)





Page 3	Mark Scheme	Syllabu A				
	IGCSE EXAMINATIONS – JUNE 2003	0610				
	Labels – shell/dorsal surface pattern; <b>reject e</b> any soft part; <b>(A) soft body reject</b>	Syllabe 0610 exoskeleton alone eyes alone				
(ii)	length of drawing measured correctly (± 2 mm);					
	correct calculation of "drawing length ÷ specimer <i>ratio needs to be labelled</i>	n length"; <b>(1 d.p.)</b>				
c)	Candidates may use snails "as they are" in this t some/all of them. Apply scheme to any sensible					
	use, thermometer/temperature probe;					
	place thermometer in contact with soft part of sna	il to record body temp				
	record temp. of surrounding air; (A) area rej	ect earth				
	repeats; <b>(A) several snails</b>					
	investigate at different temps.;					
	leave snails to adjust to surroundings before mea	suring; <b>(A) time ref.</b>				
	idea of fair test; (e.g. same procedure when inves temps.; leave same time interval between measur number of snails; other detail of fair test) <b>rej</b>					
d) (i)	hard/rigid;					
	colour/pattern;					
	contrast between inside and outside;					
	shape; <b>(A) like</b>					
	hollow;					
	opening;					
	texture; (A) smooth qualified					
	dimensions;					
	,	max				



Total: 20





INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0610/06

BIOLOGY (Alternative to Practical)

		Mary North
Page 1	Mark Scheme	Syllabu A
	IGCSE EXAMINATIONS – JUNE 2003	0610

#### 1 Two from: (a)

apacambridge.com temperature or warmth or heat/[same type of] [amount of] yeast/type of flour/same size measuring cylinder/same mass or weight of dough/ [same quantity of] [type of] sugar

(ignore water [in q], amount of ingredients, pH, light, carbon dioxide, time, humidity, reading at eye level, cold)

### (b) (i) Graph:

- 0 orientation of axes and label of axes plus units;
- S use of appropriate and even scale to fill half of the grid;
- Ρ plotting data A; B; C;
- Κ key for separate date; max [5]
- (ii) Line A rises steadily;

Line B - does not rise/rises slightly/at a constant level;

Line C - rises and flattens; [2 stages] [3]

# (iii) 80;

# (iv) Two from:

- 1. comment on volume difference, A more;
- 2. A has yeast [and B has none];
- 3. correct ref. to production of carbon dioxide; [2]

# (v) Two from:

- 1. comment on rate difference/speeding up/faster;
- 2. substance X present in C [A has no X];
- 3. reasonable suggestion for role of substance X;

(accept enzyme, catalyst, improver, AW) [2]

Total 15

[1]

Page 2	Mark Scheme	Syllabu
	IGCSE EXAMINATIONS – JUNE 2003	0610
		Can.
? (a)	2 conditions = 1 mark. No 1/2 marks.	0100
	warmth [correct/suitable temperature/10 to 30°C if spec	ified];
	oxygen;	12

but apply ecf for part (b)

## Three from: (b)

- 1. identification of one workable condition from (a) for investigation two sets one with and one without;
- 2. idea of sample size many seeds, a few seeds must be more than one seed for repetition idea;
- 3. some common factor of treatment between the two sets [with and without the condition] under investigation; (equal watering, equal number of seeds, same species AW)
- 4. left to grow for same time period; (if stated minimum 1 + days, accept up to 3 weeks) max [3]

Total 4

[1]

Mark Scheme	Syllabu 0610 Anac
IGCSE EXAMINATIONS – JUNE 2003	0610
	an.
i) Drawing:	Cambridge.co.
clear outline:	300
	·Co
correct proportions;	
i	IGCSE EXAMINATIONS – JUNE 2003

#### (i) Drawing: 3 (a)

# Labels – 2 from:

Tentacles;

eye [to be located at the end of the larger tentacles];

foot [qualified];

shell [dorsal/visceral shell or hump];

unsegmented body;

(ignore reference to negative features)

[4]

(ii) Magnification:

Check measurements given are those transcribed into the formula drawing size; actual size

calculation is correct stated as ....x 1+ (this must be more than 1 if drawings is as large as fig 3.1) max [2]

# (iii) Similarity – one from:

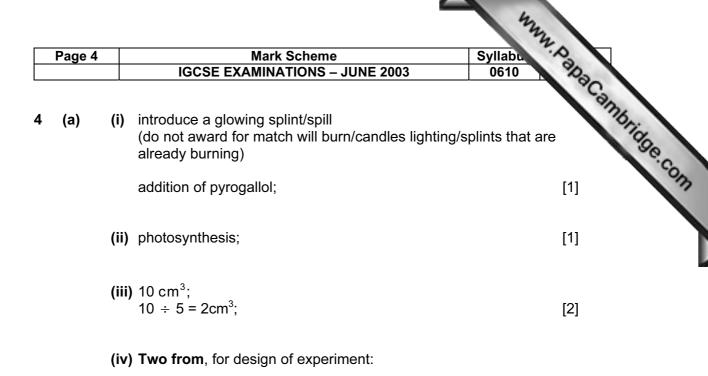
both have tentacles/eyes/same head/shell;

## Difference – one from:

(iv)

A has no large external shell and B has/shell has different shape or comment on shape; AW	[2]
mollusc:	[1]

Total: 9



- method for setting up different light intensities; (bright light in introduction - so maybe dimmer or less light but must have detail of how this is to be achieved/distances away from light bulb/AW)
- describe how to control a factor that may alter rate over a certain time (temperature - heat shield, carbon dioxide by adding hydrogen carbonate/AW)
- additional feature of design –
   (same time period for comparison of results/eliminate background light, carry out investigation in a darkened room/replicates/
   repetition/same piece of pondweed/recovery time between sets of measurements AW)
   max [2]

(b)

	Colour	Explanation
(i)	purple	carbon dioxide used up/
	[1]	photosynthesis [1]
(ii)	red/orange	balance [between photosynthesis
	[1]	and respiration] [1]
(iii)	yellow	respiration of 3 water shrimps/
	[1]	produce carbon dioxide [1]

Total: 12

			MMM. P		
					2
Grade threshol	1				
	maximum mark available	A	C	equired for gra	F
Component 1	40	-	29	24	20
Component 2	70	-	37	25	19
Component 3	70	48	33	-	-
Component 5	40	35	29	22	20
Component 6	40	32	24	18	15

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A\* does not exist at the level of an individual component.