OCR
RECOGNISING ACHIEVEMENT

GCSE

Biology A
Twenty First Century Science

General Certificate of Secondary Education **J633**

Mark Schemes for the Units

January 2009

J633/MS/R/09J

Oxford Cambridge and RSA Examinations

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by Examiners. It does not indicate the details of the discussions which took place at an Examiners' meeting before marking commenced.

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 should be read in conjunction with the published question papers and the Report on the Examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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Guidance for Examiners

1. Mark strictly to the mark scheme.
2. Make no deductions for wrong work after an acceptable answer unless the mark scheme says otherwise.
3. Each separate marking point is indicated by a (1) at the end of that marking point.
4. Abbreviations, annotations and conventions used in the detailed Mark Scheme:

   ORA = or reverse argument
   NOT = point that is not given credit
   AW/owtte = alternative wording/or words to that effect: allow any expression that is clearly equivalent
   / = Alternative and acceptable answers for the same marking point
   <u>point</u> = point must be present to gain the mark
   (description) = description which need not be present to gain the mark

   E.g. mark scheme shows 'work done in lifting / (change in) gravitational potential energy'
   work done = 0 marks
   work done lifting = 1 mark
   change in potential energy = 0 marks
   gravitational potential energy = 1 mark
5. If a candidate alters his/her response, examiners should accept the alteration.
6. The list principle: if a list of responses greater than the number requested is given, you work through the list from the beginning. Award one mark for each correct response, ignore any neutral response, and deduct one mark for any incorrect response, i.e. one which has an error of science. If the number of incorrect responses is equal to or greater than the number of correct responses, no marks are awarded. A neutral response is correct but irrelevant to the question.
7. Marking method for tick boxes:
   If there is a set of boxes, some of which should be ticked and others left empty, then you need to judge the entire set of boxes.

   E.g. If a question requires candidates to identify a city in England, then in the boxes

Edinburgh	
Manchester	
Paris	
Southampton	

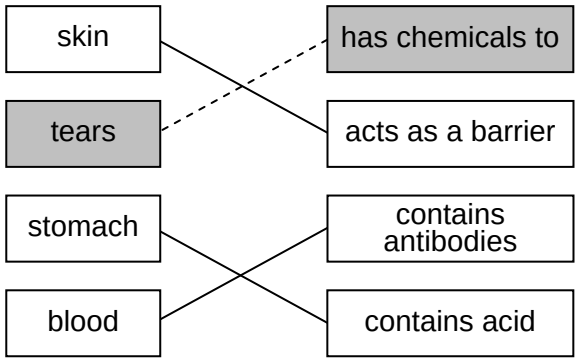
   the second and fourth boxes should have ticks (or other clear indication of choice) and the first and third <u>should be blank</u> (or have indication of choice crossed out). For a two-mark question, the rationale would be:
   All boxes are indicated scores 0 marks.
   All boxes blank scores 0 marks.
   All four boxes correct scores 2 marks.
   Three boxes correct scores 1 mark.
   Two boxes correct scores 1 mark.

Edinburgh			✓			✓	✓	✓	✓	
Manchester	✓	×	✓	✓	✓				✓	
Paris				✓	✓		✓	✓	✓	
Southampton	✓	×		✓		✓	✓		✓	
Score:	**2**	**2**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**NR**

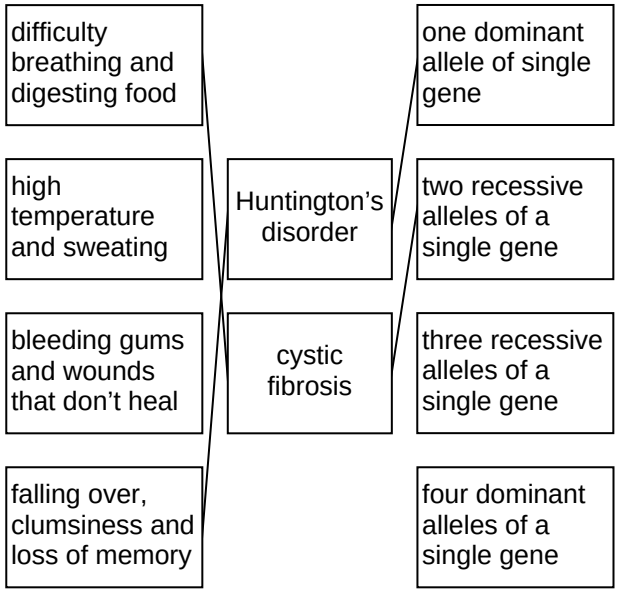
A221/01 Modules B1, B2, B3 Foundation Tier

Question			Expected Answers	Marks	Rationale
1	a		nucleus (1)	1	if more than one word is circled then circle scores zero **allow** any other clearly identified correct response e.g. shading in the box
	b		☐ carry instructions for a cell ☑ (1) ☐ code for making proteins ☑ (1) ☐	2	if more than two boxes are ticked then each incorrect box loses one mark from the total for the question the candidate cannot score less than zero
	c		☐ ☐ ☐ … of very long DNA molecules. ☑ (1) … that make up chromosomes. ☑ (1)	2	if more than two boxes are ticked then each incorrect box loses one mark from the total for the question the candidate cannot score less than zero
			Total	**5**	

Question			Expected Answers	Marks	Rationale
2	a		Peter (1)	1	one mark for the correct answer if more than one name is given then candidate scores zero.
	b		Ranjit (1)	1	one mark for the correct answer if more than one name is given then candidate scores zero.
	c		Jane (1)	1	one mark for the correct answer if more than one name is given then candidate scores zero.
	d		Stella (1)	1	one mark for the correct answer if more than one name is given then candidate scores zero.
			Total	**4**	

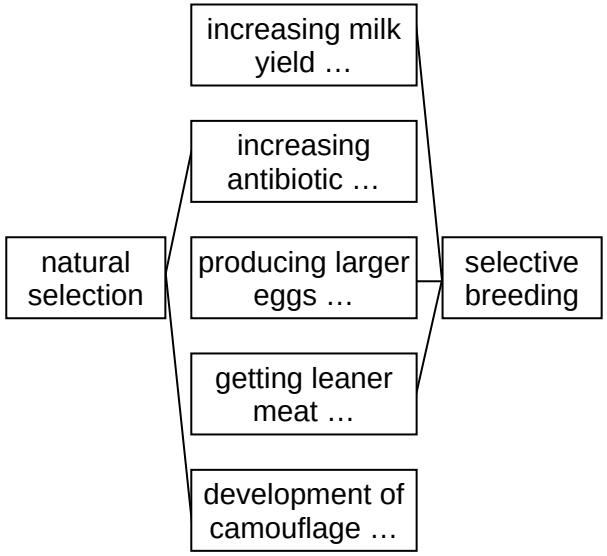
Question			Expected Answers	Marks	Rationale
3	a			2	three lines correct = 2 marks two lines correct = 1 mark one line correct = 0 marks if there are two or more lines from a part of the body, then no mark is scored for that part

Question			Expected Answers	Marks	Rationale
3	b		☐ Body temperature is 37 °C ✓ (1) ☐ The body contains food … ✓ (1) ☐ ☐	2	if more than two boxes are ticked then each incorrect box loses one mark from the total for the question the candidate cannot score less than zero
	c		microorganisms damage cells ✓ (1) ☐ ☐ ☐ microorganisms produce toxins ✓ (1) ☐	2	if more than two boxes are ticked then each incorrect box loses one mark from the total for the question the candidate cannot score less than zero
			Total	**6**	

Question			Expected Answers	Marks	Rationale
4	a			4	one mark for each correct line if more than four lines are drawn then each additional line loses one mark the candidate cannot score less than zero
	b	i	D (1)	1	one mark for the correct answer. if more than one letter is given then candidate scores zero **accept** Cc
		ii	E (1) and B (1)	2	one mark for each correct answer if more than two letters are given then candidate loses one mark for each additional answer the candidate cannot score less than zero the two correct responses can be either way round **accept** hh and CC
			Total	**7**	

Question			Expected Answers	Marks	Rationale
5	a		a safe form of the disease … ☑ (1) ☐ ☐ ☐	1	if more than one box is ticked then box scores zero **allow** any other clearly identified correct response e.g. shading in the box
	b		A (1)	1	if more than one answer given then = 0 marks
			Total	**2**	

Question			Expected Answers	Marks	Rationale
6	a	i	Wendy (1)	1	
		ii	Stella (1)	1	
	b		☐ ice cream sales increase in hot … ☑ (1) ☐ ☐	1	if more than one box is ticked then box scores zero
	c		☐ ☐ John caught a cold when … ☑ (1) ☐	1	if more than one box is ticked then box scores zero
	d		☐ ☐ ☐ playing too much football ☑ (1)	1	if more than one box is ticked then box scores zero
			Total	**5**	

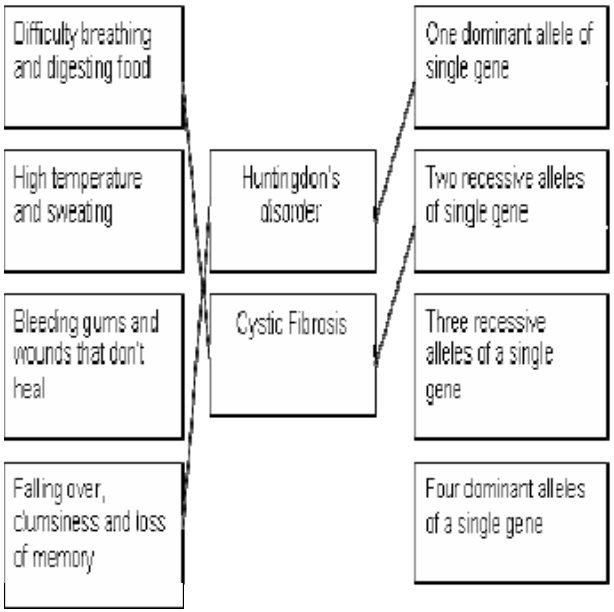
Question			Expected Answers	Marks	Rationale
7	a	i	B (1)	1	if more than one letter is given then score = 0 marks **accept** correct written answer
		ii	A (1)	1	if more than one letter is given then score = 0 marks **accept** correct written answer
	b			3	five lines correct = 3 marks four or three lines correct = 2 marks two lines correct = 1 mark one line correct = 0 marks deduct one mark for each 'change' box with two lines
	c		… Earth had been slightly different … ✓ (1) ☐ ☐ ☐	1	if more than one box is ticked then box scores zero **allow** any other clearly identified correct response e.g. shading in the box
			Total	**6**	

Question			Expected Answers	Marks	Rationale
8	a		<table><tr><th>hormonal communication</th><th>nervous communication</th></tr><tr><td>B C</td><td>A D</td></tr></table>	2	4 correct = 2 marks 3 or 2 correct = 1 mark 1 correct = 0 marks
	b		chemical slow (1) electrical fast (1)	2	one mark for each correct **sentence**.
			Total	**4**	

Question			Expected Answers	Marks	Rationale
9	a		environment ☑ (1) other species ☑ (1) ☐ ☐	2	if more than two boxes are ticked then each incorrect box loses one mark from the total for the question the candidate cannot score less than zero
	b		☐ ☐ ☐ destroying the rain forest ☑	1	if more than one box is ticked then box scores zero **allow** any other clearly identified correct response e.g. shading in the box
			Total	**3**	
			Paper Total	**42**	

A221/02 Modules B1, B2, B3 Higher Tier

Question			Expected Answers	Marks	Rationale
1	a		<table><tr><th>human male</th><th>human female</th></tr><tr><td>XY</td><td>XX</td></tr></table>	2	(1) for each correct box **allow** lower case xy and xx yx and xx x and x y x
	b		Y (1)	1	**allow** the chromosome given above that is in the male box **not** the female box SRY (Sex determining Region on the Y chromosome) = 1 Reject 23rd = 0 male = 0
	c		It causes the testes to develop (1) <table><tr><td></td></tr><tr><td>✓</td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table>	1	if more than one box ticked (0) **allow** any other clearly defined correct response
			Total	**4**	

Question			Expected Answers	Marks	Rationale
2	a			2	four lines correct (2) two or three lines correct (1) one line correct (0) additional lines lose (1) each candidate cannot score less than 0
	b	**i**	D (1)	1	if more than one letter is given the candidate scores 0 **allow** Cc
		ii	E (1) B (1)	2	either way round **allow** hh and CC if more than two letter are given then the candidate loses (1) for each additional answer the candidate cannot score less than 0
			Total	**5**	

Question			Expected Answers	Marks	Rationale
3	a		Peter (1)	1	if more than one name is given then the candidate scores (0)
	b		Ranjit (1)	1	if more than one name is given then the candidate scores (0)
	c		Jane (1)	1	if more than one name is given then the candidate scores (0)
	d		Stella (1)	1	if more than one name is given then the candidate scores (0)
			Total	**4**	

Question			Expected Answers	Marks	Rationale
4	a		the virus damages the immune system (1) ✓ the virus has a high mutation rate (1) ✓	2	if more than two boxes ticked then each incorrect box loses (1) the candidate cannot score less than 0
	b		the vaccine was very effective ✓ a large percentage of the world's population was vaccinated against the disease ✓	1	**allow** any other clearly defined response if more than two boxes are ticked (0) Both must be correct for 1 mark
	c		all school age children should receive the vaccine (1) V it has only been possible to vaccinate 81% of children (1) T	2	if more than one box is completed for each letter then box scores zero for that letter only. The candidate cannot score less than zero.
			Total	**5**	

Question			Expected Answers	Marks	Rationale
5	a		placebos are harmless chemicals that have no effect on the body (1) the patient does not know if they are taking a placebo (1) ☐ ☐ ✓ ✓ ☐	2	if more than two boxes ticked then each incorrect box loses (1) the candidate cannot score less than 0
	b		it is morally wrong to give placebos when other more effective treatment are available (1) ✓ ☐ ☐ ☐	1	if more than one box is ticked then each incorrect box loses (1) the candidate cannot score less than (0)

Question			Expected Answers	Marks	Rationale
5	c		only an independent drug testing…(1) ✓ neither Ray or his doctor will know…(1) ✓	2	if more than two boxes ticked then each incorrect box loses (1) the candidate cannot score less than 0
	d		to obtain reliable data (1) ✓	1	if more than one box is ticked then each incorrect box loses (1) the candidate cannot score less than (0)
			Total	**6**	

Question			Expected Answers	Marks	Rationale
6	a	i	Wendy (1)	1	
		ii	Stella (1)	1	
	b		Ice cream sales increase in hot weather (1) ✓	1	if more than one box is ticked then box scores 0
	c		John caught a cold when visiting Mary in hospital (1) ✓	1	if more than one box is ticked then box scores 0
			Total	**4**	

Question			Expected Answers	Marks	Rationale
7	a		the number of sightings are increasin (1) ✓ the harlequin ladybirds are spreading across the country (1) ✓	2	if more than two boxes are ticked then each incorrect box loses (1) candidate cannot score less than 0 **IGNORE** answers in first / top box
	b		the mutation of a non-poisonous gene to a poisonous one (1) ✓ inheriting the gene from its parents (1) ✓ natural selection of the poisonous gene (1) ✓	3	if more than three boxes are ticked then each incorrect box loses (1) the candidate cannot score less than 0

Question			Expected Answers	Marks	Rationale
7	c		There is not enough data currently available (1) ✓ scientists do not know how other species will adapt (1) ✓	2	if more than two boxes are ticked then each incorrect box loses (1) candidate cannot score less than 0
			Total	**7**	

Question			Expected Answers	Marks	Rationale
8	a	i	B (1)	1	if more than one response (0) Accept correct written answer
		ii	A (1)	1	if more than one response (0) Accept correct written answer
	b		if conditions on Earth had been different from what they actually were (1) ✓	1	if more than one box is ticked then box scores 0
			Total	**3**	

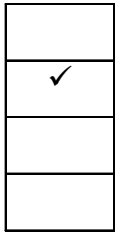
Question			Expected Answers	Marks	Rationale
9	a			2	C before B; B before E; E before A 3 correct = 2 marks 2 correct = 1 mark 1 correct = 0 marks
	b		the nervous system is faster than the hormone system (1) ✓ the nervous system uses electrical impulses (1) ✓	2	if more than two boxes are ticked then each incorrect box loses (1) candidate cannot score less than 0
			Total	**4**	
			Paper Total	**42**	

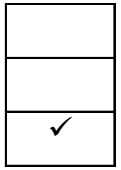
A222/01 Modules B4, B5, B6 Foundation Tier

Question			Expected Answers	Marks	Rationale
1	a		D C B A	2	C before B (1) B before A (1)
	b		evaporates and cools the skin ✓	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	c		increases (1) water (1)	2	
			Total	**5**	

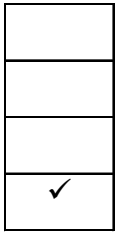
Question			Expected Answers	Marks	Rationale
2	a		passive high low	2	3 correct (2) 2 correct (1) 1 or 0 correct (0)
	b		…water molecules ✓ …molecules across a partially permeable membrane ✓ …molecules from a dilute to a concentrated solution ✓	2	3 correct = 2 marks 2 correct = 1 mark 1 correct = 0 marks Candidates lose 1 mark for each additional response. Candidates cannot score less than zero **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	c		becomes higher (1)	1	more than one response (0)
			Total	**5**	

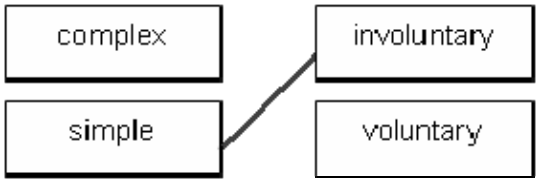
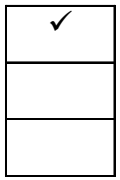
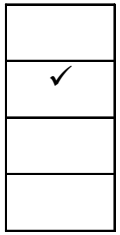
Question			Expected Answers	Marks	Rationale
3	a		drinking feeding respiring	2	more than three responses **deduct** (1) for each extra response 3 correct (2) 2 correct (1) 1 or 0 correct (0) **Accept** any other clear indication of correct response e.g. ticks, underlining etc.
	b		amount of salt eaten (1) ✓ drinking alcohol (1) ✓ external temperature (1) ✓	3	more than three responses **deduct** (1) for each extra response **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
			Total	**5**	

Question			Expected Answers	Marks	Rationale
4	a	i	mitosis (1)	1	more than one response (0)
		ii	increases (1)	1	more than one response (0)
	b	i	…halved. 	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
		ii	zygote (1)	1	more than one response (0)
		iii	28 (1)	1	more than one response (0)
			Total	**5**	

Question			Expected Answers	Marks	Rationale
5	a	i	cytoplasm (1)	1	more than one response (0) **Accept** any other clear indication of correct response e.g. ticks, underlining etc.
		ii	…stops (1) 	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	b		four (1) bases (1)	2	(1) each **Accept** any other clear indication of correct response e.g. ticks, underlining etc. more than one response for each set of boxes (0)
			Total	**4**	

Question			Expected Answers	Marks	Rationale
6	a		The cells are already specialised (1) ✓	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	b		…some active and some inactive genes (1) ✓	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	c		zygote (1)	1	more than one response (0)
	d		…have some cells which continue to divide by mitosis (1) ✓	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
			Total	**4**	

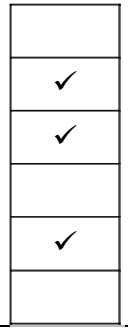
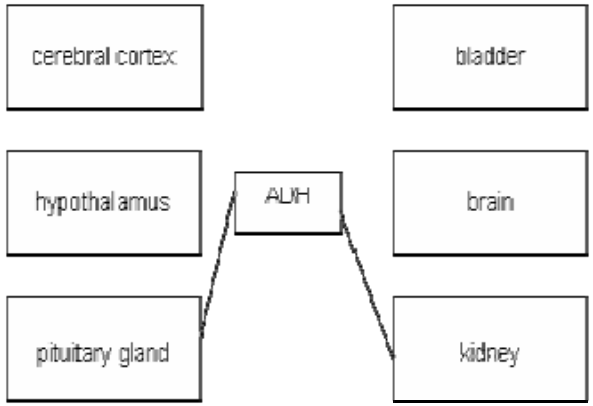
Question			Expected Answers	Marks	Rationale
7	a	i	peripheral nervous system (1)	1	more than one response (0)
		ii	muscle cells (1)	1	more than one response (0)
	b	i	 …receptors to the CNS (1)	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
		ii	C B D	2	3 correct (2) 2 correct (1) 1 or 0 correct (0)
			Total	**5**	

Question			Expected Answers	Marks	Rationale
8	a			1	look at the link as it leaves the bottom left-hand box and connects to the top right hand box more than one response (0)
	b	i	new pathways form (1) 	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
		ii	impulses (1) 	1	more than one response (0) **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	c		Bob (1) Pnashe (1)	2	**allow** the two correct names in either order
			Total	**5**	

Question			Expected Answers	Marks	Rationale
9	a		…remember things (1) ✓ …speak (1) ✓	2	more than 2 responses, deduct (1) for each extra response **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	b		…apply an electrical charge to parts of the brain (1) ✓ …look at images from an MRI scanner (1) ✓	2	more than 2 responses, deduct (1) for each extra response **Accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
			Total	**4**	

			Paper Total	**42**	

A222/02 Modules B4, B5, B6 Higher Tier

Question			Expected Answers	Marks	Rationale
1	a		drinking feeding respiring	2	more than three responses, **deduct** (1) for each extra response **accept** any other clear indication of correct response e.g. ticks, underlining etc. 3 correct (2) 2 correct (1) 1 or 0 correct (0)
	b		amount of salt eaten (1) drinking alcohol (1) external temperature (1) 	3	more than three responses **deduct** (1) for each extra response **accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	c			2	correct line on left (1) correct line on right (1) more than one line on left or right side, 0 marks for that side ignore crossed-out lines
	d		Paul (1) Megan (1)	2	**allow** names in either order
			Total	**9**	

Question			Expected Answers	Marks	Rationale
2	a	i	hypothalamus (1)	1	more than one response (0) **accept** any other clear indication of correct response e.g. tick, underlining etc.
		ii	…temperature receptors are stimulated. ✓ …the skin becomes red. ✓ …the sweat glands produce more sweat. ✓	2	more than three responses **deduct** (1) for each extra response 3 correct (2) 2 correct (1) 1 or 0 correct (0) **accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	b	i	B D A C **E**	2	B before D D before A A before C 3 correct (2) 2 correct (1) 1 or 0 correct (0)

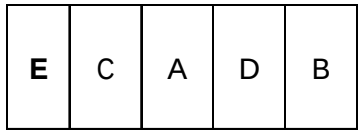
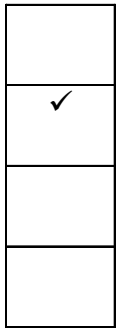
Question			Expected Answers	Marks	Rationale
2	b	ii	confusion ✓ dizziness ✓ hot, dry skin ✓	1	3 correct (1) **accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
			Total	**6**	

Question			Expected Answers	Marks	Rationale
3	a	i	cytoplasm (1)	1	more than one response (0) **accept** any other clear indication of correct response e.g. tick, underlining etc.
		ii	…stops (1) ✓	1	more than one response (0) **accept** any other clear indication of correct response e.g. cross, shading, linking line etc.
	b		four (1) bases (1)	2	(1) each more than one response for each set of boxes (0) **accept** any other clear indication of correct response e.g. ticks, underlining etc.
			Total	**4**	

Question			Expected Answers	Marks	Rationale
4	a	i	B C A	1	3 correct (1) more than one response in any box (0)
		ii	Kev (1) Jimmy (1)	2	**allow** names in either order
	b		photosynthesis (1)	1	more than one response (0) **accept** any other clear indication of correct response e.g. tick, underlining etc.
			Total	**4**	

Question			Expected Answers	Marks	Rationale
5	a		zygote cell (1)	1	more than one response (0) **accept** any other clear indication of correct response e.g. tick, underlining etc.
	b	i	some inactivated genes are reactivated (1) ✓	1	more than one response (0) **accept** any other clear indication of correct response e.g. cross, shading, linking line etc.
		ii	hormones (1)	1	more than one response (0) **accept** any other clear indication of correct response e.g. tick, underlining etc.
			Total	**3**	

Question			Expected Answers	Marks	Rationale
6	a		…remember things (1) ✓ …speak (1) ✓	2	more than 2 responses, deduct (1) for each extra response **accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	b		…apply an electrical charge to parts of the brain (1) ✓ …look at images from an MRI scanner (1) ✓	2	more than 2 responses, deduct (1) for each extra response **accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
			Total	**4**	

Question			Expected Answers	Marks	Rationale
7	a	i		3	C before A (1) A before D (1) D before B (1)
		ii	…the motor neuron (1) 	1	more than one response (0) **accept** any other clear indication of correct response e.g. cross, shading, linking line etc.
	b		brain (1) increase (1)	2	**accept** any other clear indication of correct response e.g. linking lines etc.
			Total	**6**	

Question			Expected Answers	Marks	Rationale
8	a		ears (1) cerebral cortex (1)	2	more than two responses deduct (1) for each additional response **accept** any other clear indication of correct response e.g. ticks, underlining etc.
	b		…by repeating the instructions ✓ …by the pattern of left and right-hand turns ✓	1	2 correct (1) **accept** any other clear indication of correct response e.g. crosses, shading, linking lines etc.
	c		…she knows that she turns left when she smells the sweet factory ✓ (1)	1	more than one response (0) **accept** any other clear indication of correct response e.g. cross, shading, linking line etc.
	d		B A C	2	3 correct (2) 2 correct (1) 1 or 0 correct (0)
			Total	**6**	

			Paper Total	**42**	

Grade Thresholds

General Certificate of Secondary Education
Biology A (Specification Code J633)
January 2009 Examination Series

Unit Threshold Marks

Unit		Maximum Mark	A*	A	B	C	D	E	F	G	U
A221/01	Raw	42	N/A	N/A	N/A	29	24	19	14	9	0
	UMS	34	N/A	N/A	N/A	30	25	20	15	10	0
A221/02	Raw	42	39	36	30	24	15	10	N/A	N/A	0
	UMS	50	45	40	35	30	25	20	N/A	N/A	0
A222/01	Raw	42	N/A	N/A	N/A	29	25	21	17	13	0
	UMS	34	N/A	N/A	N/A	30	25	20	15	10	0
A222/02	Raw	42	38	34	28	23	18	15	N/A	N/A	0
	UMS	50	45	40	35	30	25	20	N/A	N/A	0

Specification Aggregation Results

Overall threshold marks in UMS (ie after conversion of raw marks to uniform marks)

	Maximum Mark	A*	A	B	C	D	E	F	G	U
J633	300	270	240	210	180	150	120	90	60	0

The cumulative percentage of candidates awarded each grade was as follows:

	A*	A	B	C	D	E	F	G	U	Total No. of Cands
J633	9.6	34.6	75.0	96.2	100.0	100.0	100.0	100.0	100.0	52

198 candidates were entered for aggregation this series.

For a description of how UMS marks are calculated see:
http://www.ocr.org.uk/learners/ums_results.html

Statistics are correct at the time of publication.

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