

GCSE **BIOLOGY 8461/1H**

Paper 1 Higher Tier

Mark scheme

June 2019

Version: 1.0 Final

Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

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Information to Examiners

1. General

The mark scheme for each question shows:

- the marks available for each part of the question
- the total marks available for the question
- the typical answer or answers which are expected
- extra information to help the Examiner make his or her judgement
- the Assessment Objectives, level of demand and specification content that each question is intended to cover.

The extra information is aligned to the appropriate answer in the left-hand part of the mark scheme and should only be applied to that item in the mark scheme.

At the beginning of a part of a question a reminder may be given, for example: where consequential marking needs to be considered in a calculation; or the answer may be on the diagram or at a different place on the script.

In general the right-hand side of the mark scheme is there to provide those extra details which confuse the main part of the mark scheme yet may be helpful in ensuring that marking is straightforward and consistent.

2. Emboldening and underlining

- 2.1 In a list of acceptable answers where more than one mark is available 'any **two** from' is used, with the number of marks emboldened. Each of the following bullet points is a potential mark.
- **2.2** A bold **and** is used to indicate that both parts of the answer are required to award the mark.
- **2.3** Alternative answers acceptable for a mark are indicated by the use of **or**. Different terms in the mark scheme are shown by a /; e.g. allow smooth / free movement.
- **2.4** Any wording that is underlined is essential for the marking point to be awarded.

3. Marking points

3.1 Marking of lists

This applies to questions requiring a set number of responses, but for which students have provided extra responses. The general principle to be followed in such a situation is that 'right + wrong = wrong'.

Each error / contradiction negates each correct response. So, if the number of error / contradictions equals or exceeds the number of marks available for the question, no marks can be awarded.

However, responses considered to be neutral (indicated as * in example 1) are not penalised.

Example 1: What is the pH of an acidic solution?

[1 mark]

Student	Response	Marks awarded
1	green, 5	0
2	red*, 5	1
3	red*, 8	0

Example 2: Name two planets in the solar system.

[2 marks]

Student	Response	Marks awarded
1	Neptune, Mars, Moon	1
2	Neptune, Sun, Mars,	0
	Moon	

3.2 Use of chemical symbols / formulae

If a student writes a chemical symbol / formula instead of a required chemical name, full credit can be given if the symbol / formula is correct and if, in the context of the question, such action is appropriate.

3.3 Marking procedure for calculations

Marks should be awarded for each stage of the calculation completed correctly, as students are instructed to show their working. Full marks can, however, be given for a correct numerical answer, without any working shown.

3.4 Interpretation of 'it'

Answers using the word 'it' should be given credit only if it is clear that the 'it' refers to the correct subject.

3.5 Errors carried forward

Any error in the answers to a structured question should be penalised once only.

Papers should be constructed in such a way that the number of times errors can be carried forward is kept to a minimum. Allowances for errors carried forward are most likely to be restricted to calculation questions and should be shown by the abbreviation ecf in the marking scheme.

3.6 Phonetic spelling

The phonetic spelling of correct scientific terminology should be credited **unless** there is a possible confusion with another technical term.

3.7 Brackets

(....) are used to indicate information which is not essential for the mark to be awarded but is included to help the examiner identify the sense of the answer required.

3.8 Allow

In the mark scheme additional information, 'allow' is used to indicate creditworthy alternative answers.

3.9 Ignore

Ignore is used when the information given is irrelevant to the question or not enough to gain the marking point. Any further correct amplification could gain the marking point.

3.10 Do not accept

Do **not** accept means that this is a wrong answer which, even if the correct answer is given as well, will still mean that the mark is not awarded.

4. Level of response marking instructions

Extended response questions are marked on level of response mark schemes.

- Level of response mark schemes are broken down into levels, each of which has a descriptor.
- The descriptor for the level shows the average performance for the level.
- There are two marks in each level.

Before you apply the mark scheme to a student's answer, read through the answer and annotate it (as instructed) to show the qualities that are being looked for. You can then apply the mark scheme.

Step 1: Determine a level

Start at the lowest level of the mark scheme and use it as a ladder to see whether the answer meets the descriptor for that level. The descriptor for the level indicates the different qualities that might be seen in the student's answer for that level. If it meets the lowest level then go to the next one and decide if it meets this level, and so on, until you have a match between the level descriptor and the answer.

When assigning a level you should look at the overall quality of the answer. Do **not** look to penalise small and specific parts of the answer where the student has not performed quite as well as the rest. If the answer covers different aspects of different levels of the mark scheme you should use a best fit approach for defining the level.

Use the variability of the response to help decide the mark within the level, i.e. if the response is predominantly level 2 with a small amount of level 3 material it would be placed in level 2 but be awarded a mark near the top of the level because of the level 3 content.

Step 2: Determine a mark

Once you have assigned a level you need to decide on the mark. The descriptors on how to allocate marks can help with this.

The exemplar materials used during standardisation will help. There will be an answer in the standardising materials which will correspond with each level of the mark scheme. This answer will have been awarded a mark by the Lead Examiner. You can compare the student's answer with the example to determine if it is the same standard, better or worse than the example. You can then use this to allocate a mark for the answer based on the Lead Examiner's mark on the example.

You may well need to read back through the answer as you apply the mark scheme to clarify points and assure yourself that the level and the mark are appropriate.

Indicative content in the mark scheme is provided as a guide for examiners. It is not intended to be exhaustive and you must credit other valid points. Students do **not** have to cover all of the points mentioned in the indicative content to reach the highest level of the mark scheme.

You should ignore any irrelevant points made. However, full marks can be awarded only if there are no incorrect statements that contradict a correct response.

An answer which contains nothing of relevance to the question must be awarded no marks.

Question	Answers	Extra information	Mark	AO / Spec. Ref.
01.1	controls the (activities of the) cell	allow contains genetic information / genes / DNA / chromosomes	1	4.1.1.2 AO1
		do not accept brain do not accept controls substances entering / leaving the cell		
01.2	red blood cell / RBC	allow erythrocyte	1	4.2.2.3 4.1.1.1
		ignore blood cell unqualified ignore platelets		AO1
	or bacteria / prokaryote	allow named examples of bacteria		
		do not accept virus		
	or xylem (cell)			
01.3	cell shape is similar to cell in Figure 1 and nucleus present	ignore shading	1	4.1.1.2 AO2
	rigure i and hucieus present	do not accept a cell wall drawn		8.2.1 AO1
	any two features correctly identified and labelled:		1	7.01
	nucleus(cell) membranecytoplasm	allow cell wall if drawn and correctly labelled		
	mitochondria / mitochondrionribosome(s)	do not accept other plant sub- cellular structures		
01.4	any one from: • (cellulose cell) wall		1	4.1.1.2 AO1
	chloroplast(permanent) vacuole	ignore chlorophyll		7.51
	(permanent) vacuole	allow starch grain		

Question	Answers	Extra information	Mark	AO / Spec. Ref.
01.5		an answer of (x) 400 scores 3 marks an answer of (x) 40 scores 2 marks		4.1.1.5 AO2
	24 (mm) or 2.4 (cm)	allow in range 23 to 25 (mm) or in range 2.3 to 2.5 (cm)	1	
		allow correct calculation from their measurement of X to Y in the range 2.3 cm to 3.5 cm or 23 mm to 35 mm	1	
	(x) 400	allow correct magnification derived from their measurement in mm ignore rounding errors	1	
01.6	high(er) magnification	ignore bigger / zoom	1	4.1.1.5
55	high(er) resolution or high(er) resolving power	allow see more detail if neither mark awarded allow 1 mark for see smaller objects or see smaller sub-cellular structures allow 3D image	1	AO1
Total			10	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
02.1	a protist		1	4.3.1.5 AO1
02.2	lower percentage of people with	allow converse if clearly describing people who do not use (mosquito) nets allow fewer people with malaria	1	4.3.1.5 AO3
	malaria when using (mosquito) nets	when using (mosquito) nets allow only 1.2% of people with malaria when using (mosquito) nets		
		ignore reference to data from table unqualified		
		do not accept incorrectly calculated figures		
02.3	 any one from: some people who use (mosquito) nets have malaria data from only one area / part of Africa size of group too small or sample size too small or only 476 people only 50 people did not use (mosquito) nets 	allow people can get malaria when they are not sleeping allow correlation does not imply causation	1	4.3.1.5 AO3
	 or uneven group sizes (nets vs. no nets) no other information about people considered people may have lied about using (mosquito) nets 	allow examples of information not considered e.g. age, other medical issues such as sickle cell, whether taking anti-malarial medication, vaccination ignore ref to other factors unqualified		
02.4	any value between 88 – 91	allow decimal values	1	4.3.1.5 AO2

Question	Answers	Extra information	Mark	AO / Spec Ref
02.5	any one from: • improved health care	allow examples of improved health care such as more / cheaper / new treatments / vaccinations / antibiotics	1	4.2.2.5 4.3.1.5 AO2
	 use of mosquito control methods 	allow descriptions such as spraying of insecticides / repellent or draining water holes or preventing mosquitoes from breeding		
	 changing behaviour to avoid being bitten (by mosquitoes) 	allow descriptions such as wear long clothing or avoid going out at dusk		

Question	Answers	Mark	AO / Spec. Ref.
02.6	Level 2: Scientifically relevant facts, events or processes are identified and given in detail to form an accurate account.	4–6	4.3.1.6 4.3.1.7 AO1
	Level 1: Facts, events or processes are identified and simply stated but their relevance is not clear.	1–3	AOT
	No relevant content	0	
	Indicative content		
	prevents pathogens from entering skin tough / dry / dead outer layer skin acts as a barrier sebum / oil on (surface of) skin sebum / oil repels pathogens scabs form over cuts or scabs form a barrier platelets are involved in forming clots / scab stomach contains (hydrochloric) acid (HCI) kills bacteria in food or in swallowed mucus eyes produce tears contains enzymes to kill bacteria tears are antiseptic breathing system trachea / bronchi / nose produce mucus mucus is sticky (mucus) traps bacteria (mucus) carried away by cilia defends itself against pathogens inside the body immune system / white blood cells (WBCs) WBCs engulf pathogens antitoxins are produced (antitoxins) neutralise toxins / poisons (produced by pathogen) antibodies are produced (antibodies) help destroy pathogens		
	 memory cells (are formed) (memory cells give a) more rapid response if pathogen re-enters a level 2 response should refer to body defence and the immune system 		
Total		11	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
03.1		words take precedence over symbols		4.4.1.1 AO1
	LHS: carbon dioxide and water	allow correct symbols (ignore balancing)	1	
	glucose	in any order do not accept starch ignore carbohydrates / sugar		
03.2	power output of bulb		1	4.4.1.2 AO2
03.3	any two from: repeat and calculate a mean or repeat and to eliminate anomalies control the (water) temperature control the concentration of carbon dioxide control the distance of the bulb from the pondweed control the mass / length / species / age of the pondweed give pondweed time to equilibrate	ignore do a control experiment unqualified allow a method of controlling (water) temperature allow a method of controlling carbon dioxide concentration allow use the same piece of pondweed allow do experiment with the bulb off / in the dark	2	4.4.1.2 AO3
03.4	3.3 (cm ³ /hour)		1	4.4.1.2 AO2

Question	Answers	Extra information	Mark	AO / Spec. Ref.
03.5	correct scale and axis labelled	max 3 marks for bar chart	1	4.4.1.2 AO2
	all points plotted correctly	allow points plotted to within ± ½ small square allow 3 or 4 correct plots for 1 mark allow correct plot from incorrect value calculated in question 03.4	2	
	correct curved line of best fit	ignore line extended beyond 60 / 250 (W) ignore line joined point to point with straight lines	1	
03.6	correct answer from their line drawn on Figure 4	allow ± ½ small square tolerance allow 1.8 / 1.9 if no line of best fit or incorrect graph is drawn	1	4.4.1.2 AO2
03.7	Rate of photosynthesis Temperature		1	4.4.1.2 AO2
Total			12	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
04.1	(by the guard cells) opening and closing the stomata	ignore ref to guard cells being plasmolysed / turgid	1	4.2.3.2 AO1
04.2	(water is) transported in xylem	ignore mechanism of water entering the roots	1	4.2.3.2 AO1
		do not accept translocation		
	water evaporates (from leaves)	allow loss of water vapour	1	
	through the stomata	allow between the guard cells	1	
		if no other marks awarded allow 1 mark for reference to transpiration		
04.3	any one from:	allow converse for plant B	1	4.2.3.2 AO2
	plant A has more stomata	allow (the plants) have different numbers of stomata		AOZ
	plant A has more leaves	allow (the plants) have different numbers of leaves		
	plant A has bigger leaves	allow (the plants) have different sized leaves		
	plant A has a greater total surface area of leaves	allow (the plants) have different total surface area of leaves		
		allow plant A has less (waxy) cuticle or		
		(the plants) have different amounts of (waxy) cuticle		
		allow plant A has fewer hairs on leaves		
		or (the plants) have different number of hairs on the leaves		

Question	Answers	Extra information	Mark	AO / Spec. Ref.
04.4		an answer of 10 scores 3 marks		4.2.3.2
	5.2	allow in range 4.8 to 5.6	1	AO2
	(5.2 × 2 =) 10.4 or	allow their calculated value in the range 8.8 to 12.0	1	
	$\left(\frac{5.2}{0.5} = \right) 10.4$			
	10 (cm ³ /hour)	allow their calculated value in the range 8.8 to 12.0 correct to 2 significant figures	1	
04.5	(rate increased because) any two from: • (it was) warmer	answers must be comparative	2	4.2.3.2 AO3
	light intensity was higher(it was) less humid(it was) windier	allow greater water vapour gradient between leaves and environment		
Total	- (it was) william		10	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
05.1	Level 2: Relevant points (reason detail and logically linked to form a	ns/causes) are identified, given in a clear account.	3–4	4.2.2.4 4.2.2.2
	Level 1: Relevant points (reasons are attempts at logical linking. Th clear.		1–2	4.1.3.1 AO2
	No relevant content		0	
	body or some blood stays in the pumped out) or reduced blood less oxygen supplied to muscle (so) less <u>aerobic</u> respiration (so) less energy released (so) less (efficient) muscle core anaerobic respiration takes pla	less blood is pumped around the he heart (instead of being dipressure or reduced flow rate es / cells htraction acce c acid or lactic acid builds up or s muscle fatigue on dioxide (from blood)		

Question	Answers	Extra information	Mark	AO / Spec. Ref.
05.2		ignore raw numbers from Table 4		4.2.2.4 AO3
	(deaths mechanical valve =) 6% / 6.31136%	allow correctly rounded value	1	
	(deaths biological valve =) 10% / 10.14823%	allow correctly rounded value	1	
	(therefore a) higher proportion / percentage of patients die with biological valve or patients are more likely to die with biological valve	do not accept more patients die with a biological valve allow 2 marks for ratio mechanical: biological = 1:1.6 or 1:1.7 or correctly calculated value	1	AO2
		allow 3 marks for deaths with biological valves = 4% / 3.83687% higher or correctly rounded value or patients are 1.6 / 1.7 times more likely to die with biological valves if no other marks awarded,		
		allow for 1 mark chance of death after a valve replacement is 8% / 7.77247% or correctly rounded value		

Question	Answers	Extra information	Mark	AO / Spec. Ref.
05.3	platelets	allow thrombocytes	1	4.2.2.3 AO1
05.4	Level 3: A judgement, strongly lin sufficient range of correct reasons	• • • • • •	5–6	4.2.2.4 AO2 AO3
	Level 2: Some logically linked real be a simple judgement.	asons are given. There may also	3–4	AOS
	Level 1: Relevant points are mad	e. They are not logically linked.	1–2	
	No relevant content		0	
	Indicative content:			
	 mechanical valves longer lasting or more durable or don't wear out as easily or less likely to need replacing (within 6 years) blood clots (on the brain) are more likely (after surgery) patient has to take anti-clotting medication (for the rest of their lives) if medication not taken (correctly), clots can lead to blood clots on brain / heart attack medication can lead to excessive bleeding (after injury) some patients say they can hear the valves opening and closing survival rate at 5 years is slightly higher for mechanical valve lower percentage of deaths due to heart-related problems biological valves 			
	 no additional medication required ethical issues surrounding use of animal tissue valve may harden more likely to need further operation or another new valve more likely to be rejected more likely to need (immuno-suppressant) medication 			
	 both valves both are readily available little wait time a level 2 response should contain comparisons of both valves and some reference to own knowledge 			
Total			14	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
06.1	plasma		1	4.2.2.3 AO1
06.2	Benedict's (reagent / solution)	allow Fehling's (reagent / solution)	1	4.2.2.1 AO1
06.3	add chemical / Benedict's (reagent to urine) and	allow ecf from question 06.2	1	4.2.2.1 AO1
	boil / heat	allow any temperature above 65 °C		
		ignore water bath unqualified		
	positive result – (colour changes from blue to brick) red	allow orange / yellow / green / brown	1	
		if no other mark awarded, allow 1 mark for reference to glucose testing stick / strip		
06.4	the blood is more concentrated or less dilute (than the solution in the cells)	allow the solution in the cells is less concentrated or more dilute than the blood allow correct references to water	1	4.1.3.2 AO2
		concentration or water potential or hypotonic / hypertonic		
		ignore reference to amount of water or glucose		
	(so) water moves out of cells by osmosis	allow (so) water moves into the blood by osmosis	1	
	water moves through a partially permeable membrane	allow semi-permeable / selectively permeable membrane	1	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
06.5	projections / folds / villi provide a large surface area	ignore small intestine has a large surface area	1	4.1.3.1 4.1.3.3 4.2.2.1 4.1.1.2
	walls of projections / folds / villi / capillaries are thin / one cell thick for shorter absorption / diffusion distance		1	AO1
	(small intestine is) very long, increasing time (for absorption)		1	AO1
	good / efficient blood supply to maintain concentration gradient	allow many capillaries to maintain concentration gradient	1	AO2
	cells have many mitochondria for (aerobic) respiration for active transport	do not accept anaerobic	1	
	cells have many mitochondria for energy release for active transport	do not accept producing energy		
Total			12	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
07.1	blood is pumped to the lungs by one / right side of the heart and blood is pumped to the body by the other / left side of the heart	allow blood enters the heart twice for every (one) circuit around the body	1	4.2.2.2 AO1
07.2	ventricle correctly identified as any part of grey area below:		1	4.2.2.2 AO2
07.3	oxygenated and deoxygenated blood mixes	allow some deoxygenated blood is sent to the body / tissues / cells	1	4.2.2.2 AO3
	(so) less oxygen reaches the body / tissues / cells	allow named tissues / organs	1	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
07.4	concentration gradient (of oxygen) is shallow(er) / less steep (therefore) less oxygen diffuses into blood / cells / gills	allow idea that concentration gradient is negative (i.e. out of axolotl) (1) so oxygen diffuses out of axolotl's blood / cells / gills (1)	1	4.4.2.3 4.4.2.1 4.1.3.1 AO2
	(so) less (aerobic) respiration occurs so less energy is released / available or (so more) anaerobic respiration occurs so less energy is released / available	do not accept no respiration occurs do not accept energy production	1	
	or (so when) anaerobic respiration occurs, lactic acid is produced (and is toxic)	ignore reduced living processes unqualified allow reduction of building larger molecules or movement / muscle contraction or keeping warm or urea formation or chemical reactions	1	
07.5	stem (cells)	do not accept embryonic stem cell	1	4.1.2.3 AO2
07.6	any one from: • paralysis • diabetes	allow other examples such as Parkinson's / heart disease / stroke / cystic fibrosis / cancer / burns do not accept infectious diseases	1	4.1.2.3 AO1
07.7	any one from: • easy to breed • easy / cheap to keep / rear (as are small) • don't take up much space	allow reproduce quickly allow reference to not being dangerous (to the scientist) allow they are not endangered allow removal of gill will not kill the axolotl	1	4.1.2.3 AO3

Question	Answers	Extra information	Mark	AO / Spec. Ref.
07.8	 any one from: it's not a mammal or it is an amphibian regeneration in gills may be different to that in other organs metabolism / body processes are too different to humans 	allow humans do not have gills allow it's an endangered species or species need to be protected from extinction ignore reference to genetic differences or ethics	1	4.1.2.3 AO3
Total			12	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
08.1	 any one from: (chemical which) catalyses / speeds up reactions in living organisms (chemical which) catalyses / speeds up biological reactions 	allow biological catalyst allow reduces activation energy (of reactions) in living organisms	1	4.2.2.1 AO1
	idea of specificity or (is a) protein	allow made of amino acids	1	
08.2	salivary gland	ignore mouth ignore liver	1	4.2.2.1 AO1
	small intestine	allow duodenum / ileum ignore intestine unqualified do not accept large intestine	1	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
08.3	reduced / no enzyme production / release (from pancreas)	allow named example of enzymes ignore reference to hormones	1	4.2.2.1 4.4.2.3 4.4.2.1 AO2
	food is not broken down fully or food is not digested fully	allow no food is broken down / digested allow example	1	
	plus any one of the following routes for max 2 marks:	mark as pairs		
	less glucose / sugar absorbed or less glucose / sugar passes into the blood(stream)		1	
	(so) less glucose available for respiration so more (body / stored) fat used up in metabolism / respiration		1	
	or			
	fewer amino acids absorbed or fewer amino acids pass into the blood(stream) (1)			
	(so) fewer amino acids are available for making new protein for repair / replacement (1)			
	or			
	fewer fatty acids absorbed or fewer fatty acids pass into the blood(stream) (1)	ignore glycerol		
	(so) fewer fatty acids available so less fat is stored in the body (1)	ignore glycerol		
	or			
	chemotherapy / radiotherapy causes nausea / loss of appetite (1)			
	(so) less intake of food (1)			

Question	Answers	Extra information	Mark	AO / Spec. Ref.
08.4	(cancer) cells cannot divide or (cancer) cells are destroyed / killed	do not accept reference to the drug killing (cancer) cells	1	4.2.2.7 AO3
	(so) tumour doesn't grow / get bigger or tumour less likely to spread or tumour less likely to form secondary tumours	allow cancer cells less likely to spread / metastasise	1	
	(because) enzymes A and B are not working / active / effective / present or (because) enzymes A and B are inhibited	allow reference to both enzymes ignore enzymes unqualified	1	
08.5	(functional) enzyme B would still be made / present	allow enzyme B is not inhibited	1	4.2.2.7 AO3
	(therefore cancer) cells would still divide uncontrollably or (therefore cancer) cells would not be destroyed or (therefore) the tumour will (continue to) grow / get bigger / spread or the tumour will form secondary tumours		1	
08.6	any two from: • to avoid the patients thinking they feel better with the drug or to take into account a psychological effect • as a control / comparison • to avoid bias(ed results)	ignore to make it more valid unqualified ignore to provide an independent variable	2	4.3.1.9 AO2
08.7	testing on volunteers with the disease		1	4.3.1.9 AO1

Question	Answers	Extra information	Mark	AO / Spec. Ref.
08.8	monoclonal antibody is attached to radioactive substance / toxin / drug / chemical		1	4.3.2.2 AO1
	monoclonal antibody will (only) attach to / target (antigen on) cancer cells / tumour		1	AO1
	(so) radioactive substance / toxin / drug / chemical will (bind to cancer cells and) stop them growing / dividing	allow radioactive substance / toxin / drug / chemical will kill / destroy the cancer cells	1	AO1
		OR monoclonal antibody interrupts the cell cycle or monoclonal antibody aids immune response (1)		
		monoclonal antibody will (only) target cancer cells / tumour (1)		
		(so) action of monoclonal antibody stops cancer cells growing / dividing or (so) action of monoclonal antibodies helps immune system kill / destroy cancer cells (1)		
Total		_	19	