
**GCSE
BIOLOGY
8461/1H**

Paper 1 Higher Tier

Mark scheme

June 2020

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 / ; eg 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, Moon	0

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, ie 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	<i>before arrow</i> carbon dioxide and water	allow correct chemical symbols ignore any attempt at balancing equation ignore light / chlorophyll either order	1	AO1 4.4.1.1
	<i>after arrow</i> glucose	ignore sugar / carbohydrate do not accept starch	1	
01.2	<u>light</u>	ignore description of subsequent parts of the photosynthesis reaction allow <u>sunlight</u> ignore sun	1	AO1 4.1.1.2 4.4.1.1
	(light) is captured / trapped / absorbed by chlorophyll / chloroplasts	allow (light) is used by chlorophyll / chloroplasts	1	
01.3	$\frac{18.5 + 19.3 + 19.5}{3}$		1	AO2 4.4.1.2 RPA 6
	or $\frac{57.3}{3}$ 19.1 (cm ³ /hour)	allow an answer correctly calculated using only two correct values	1	
01.4	a ring around 14.2	allow clear indication of correct result	1	AO3 4.4.1.2 RPA 6

01.5	<p>any one from:</p> <ul style="list-style-type: none"> scale / value was misread there was air / oxygen in the syringe / measuring cylinder / apparatus the lamp / light was moved temperature changed had different mass / length of pondweed pondweed had not acclimatised 	<p>ignore human error ignore references to counting bubbles or time</p> <p>allow measurement error</p> <p>allow light intensity changed ignore different bulb / lamp unqualified</p>	1	<p>AO3 4.4.1.2 RPA 6</p>
01.6	did not use it in calculation (of mean)		1	<p>AO3 4.4.1.2 RPA 6</p>
01.7	<p>any one from:</p> <ul style="list-style-type: none"> light (intensity) carbon dioxide (concentration) pondweed size / amount pondweed species 	<p>do not accept temperature ignore time allow distance / power / colour of lamp / light</p> <p>allow same (piece of) pondweed</p>	1	<p>AO3 4.4.1.2 RPA 6</p>
01.8	enzyme(s) lose the shape of the active site	<p>allow enzyme(s) (start to) denature</p> <p>allow enzyme(s) destroyed / damaged</p> <p>do not accept enzyme(s) killed</p>	1	<p>AO2 4.2.2.1</p>

01.9	y-axis labelled '(rate of) photosynthesis in cm ³ /hour'		1	AO2 4.4.1.2 RPA 6
	suitable scale on y-axis	must take up half or more of grid provided	1	
	all points plotted to within $\pm \frac{1}{2}$ small square	allow 3 or 4 correct plots for 1 mark ignore any attempt to plot a point at 20 °C	2	
	correct curved line of best fit	ignore line joined point to point with straight lines ignore extrapolation	1	
Total			16	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
02.1	movement / spreading out of molecules / particles	allow movement / spreading out of (named) substances / chemicals / gases / liquids ignore reference to membranes / cells	1	AO1 4.1.3.1
	from (an area of) high(er) concentration to (an area of) low(er) concentration	allow down / with the concentration gradient ignore along / across the concentration gradient do not accept movement from / to a concentration gradient	1	
02.2	increased carbon dioxide concentration in the air		1	AO2 4.1.3.1 4.2.3.2
	increased number of stomata that are open		1	

02.3	Level 3: Relevant points (reasons/causes) are identified, given in detail and logically linked to form a clear account.	5–6	AO1 4.1.3.1 4.2.2.2 4.2.2.3
	Level 2: Relevant points (reasons/causes) are identified, and there are attempts at logical linking. The resulting account is not fully clear.	3–4	
	Level 1: Points are identified and stated simply, but their relevance is not clear and there is no attempt at logical linking.	1–2	
	No relevant content	0	
	Indicative content <ul style="list-style-type: none"> (many) alveoli <ul style="list-style-type: none"> provide a large(r) surface area (: volume) capillaries are thin <ul style="list-style-type: none"> or alveoli / capillary walls are thin or one cell thick or capillaries are close to the alveoli which provides short diffusion path (for oxygen / carbon dioxide) breathing (mechanism) moves air in and out <ul style="list-style-type: none"> or lungs are ventilated <ul style="list-style-type: none"> to bring in (fresh) oxygen to remove carbon dioxide to maintain a concentration / diffusion gradient large capillary network (around alveoli) <ul style="list-style-type: none"> or good blood supply <ul style="list-style-type: none"> to remove oxygen(ated blood) quickly to bring carbon dioxide to the lungs quickly to maintain a concentration / diffusion gradient 		

02.4	osmosis	allow diffusion	1	AO1 4.1.3.1 4.2.3.2 4.1.3.2
02.5	active transport (because) energy is needed (to move nitrate ions) from a low(er) concentration (in the soil) to a high(er) concentration (in the root / cell)	 allow (to move nitrate ions) against / up the concentration gradient allow (because) there is a lower concentration (of nitrate ions) in the soil or (because) there is a higher concentration (of nitrate ions) in the root / cell ignore reference to amount / number of nitrate ions ignore along / across the concentration gradient do not accept if reference to molecules / atoms moving	1 1 1	AO3 AO2 AO2 4.1.1.3 4.2.3.2 4.1.3.3
Total			14	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
03.1	<p>any two from:</p> <p>(both have)</p> <ul style="list-style-type: none"> cytoplasm (cell) membrane DNA / genetic material ribosomes 	<p>ignore reference to shape</p> <p>allow RNA</p> <p>ignore genetic information</p> <p>if no other mark awarded allow sub-cellular structures for 1 mark</p> <p>if no other mark awarded allow correct cellular process, e.g. respiration for 1 mark</p>	2	<p>AO2</p> <p>4.1.1.1</p> <p>4.1.1.2</p> <p>4.1.2.1</p>
03.2	<p>any three from:</p> <ul style="list-style-type: none"> prokaryotic cell is smaller prokaryotic cell has no mitochondria prokaryotic cell has no nucleus or DNA is free in the cytoplasm or genetic material is free in the cytoplasm prokaryotic cell has a single loop of DNA or prokaryotic cell has a single loop of genetic material prokaryotic cell has plasmids 	<p>allow converse for eukaryotic cells</p> <p>allow reference to bacterium instead of prokaryotic cell</p> <p>ignore reference to features not shown in Figure 5</p> <p>if neither mark awarded, allow prokaryotic cell has no membrane-bound organelles</p> <p>ignore genetic information</p> <p>ignore genetic information</p> <p>ignore circular / rings of DNA</p> <p>allow prokaryotic cells have smaller ribosomes</p>	3	<p>AO2</p> <p>4.1.1.1</p> <p>4.1.1.2</p> <p>4.1.2.1</p>

03.3	1 μm = 0.001 mm or 1 mm = 1000 μm or 0.05 mm = 50 μm or 0.05 \times 1000		1	AO2 4.1.1.1 4.1.1.2
	(1:) 50	do not accept if a unit is given	1	
03.4	mitosis	correct spelling only	1	AO1 4.1.2.2
03.5	35%		1	AO2 4.1.2.2
03.6	(stage 1) DNA / chromosomes replicate / duplicate	ignore names of the stages of the cell cycle ignore genetic material ignore DNA / chromosomes double / reproduce	1	AO1 4.1.2.2
	mitochondria / ribosomes / sub-cellular structures increase in number or mitochondria / ribosomes / sub-cellular structures replicate	allow cytoplasm increases ignore cell grows unqualified	1	
	(stage 2) one set of chromosomes is pulled / moved to each end of the cell	allow one of each chromosome is pulled / moved to each end of the cell ignore nucleus divides	1	
	(stage 3) the cytoplasm and cell membrane divides (to form two cells)	allow cytoplasm divides and (new) cell membranes form ignore nucleus divides	1	
Total			13	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
04.1	fatty acids		1	AO1 4.2.2.1
	glycerol		1	4.4.2.3
04.2	enzyme binds to the substrate because they are complementary (shapes)	allow enzyme joins to the substrate because they fit together exactly allow enzyme joins to the substrate because the substrate fits the active site ignore reference to specificity do not accept same shape	1	AO2 4.2.2.1
	(so) substrate is broken down (into products)	allow (so) substrate splits (into products) ignore products are formed, unqualified	1	
	(so) products are released or enzyme is not changed	allow enzyme is not used up allow reference to activation energy for either marking point 2 or marking point 3	1	
04.3	each <u>active site</u> has a specific shape (so only fits one type of lipid molecule)	allow each <u>active site</u> is a different shape do not accept reference to the substrate having an active site	1	AO2 4.2.2.1
04.4	add Benedict's (solution / reagent to the liquid)		1	AO1 4.2.2.1 RPA 4
	boil / heat	allow any temperature of 65 °C or above	1	
	(if glucose is present the blue) colour changes to yellow / green / orange / brown / (brick)red		1	

04.5	<p>add iodine solution / reagent (to the liquid)</p> <p>(if starch is present) it changes colour to blue / black (from yellow / orange / brown)</p>	<p>allow add a drop of iodine ignore iodine unqualified</p>	<p>1</p> <p>1</p>	<p>AO1 4.2.2.1 RPA 4</p>
04.6	<p>glucose from photosynthesis</p> <p>(excess) glucose converted to starch</p>	<p>do not accept starch made in photosynthesis</p> <p>allow (excess) glucose is stored as starch</p>	<p>1</p> <p>1</p>	<p>AO2 4.2.2.1 4.4.1.1 4.4.1.3 4.4.2.3</p>
04.7	<p>starch (stores) have been converted to glucose</p> <p>(so the glucose can be) used for respiration / (named) metabolic reactions or (so the glucose can be) used to release energy</p> <p>(because) there is no light to make (new / more) glucose by photosynthesis</p>	<p>ignore reference to residual glucose from previous photosynthesis</p> <p>do not accept idea of energy being produced / created / made</p>	<p>1</p> <p>1</p> <p>1</p>	<p>AO3 4.4.1.1 4.4.2.1 4.4.1.3</p>
04.8	<p>any one from:</p> <ul style="list-style-type: none"> • test roots / stems of plants (in the light and dark) • test other species of plant • measure the concentrations of glucose and starch • vary the time in the dark / light • test variegated leaves 	<p>do not accept reference to changing the independent variable</p> <p>allow test other parts of the plants allow test other types of plant ignore mass / amount</p> <p>allow any other valid extension ignore repeats</p>	<p>1</p>	<p>AO3 4.4.1.2 4.4.1.3</p>
Total			17	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
05.1	mechanical	allow physical allow structural	1	AO3 4.3.3.2
05.2	any one from: <ul style="list-style-type: none"> to deter herbivores to prevent animals damaging it 	ignore to injure animals, unqualified allow to deter animals eating it do not accept to deter predators	1	AO2 4.3.3.2
05.3	chemical		1	AO3 4.3.3.2

<p>05.4</p>	<p>any two from :</p> <ul style="list-style-type: none"> lack of magnesium (ions) (1) <p>(so) not enough chlorophyll for (efficient) photosynthesis (1)</p> <p>(so) not enough glucose to make proteins for growth or not enough glucose to release energy for growth (1)</p> <ul style="list-style-type: none"> infection by pathogen / bacteria / virus / fungus (1) <p>(so) leaves become discoloured / yellow so less photosynthesis (1)</p> <p>(so) not enough glucose to make proteins for growth or not enough glucose to release energy for growth (1)</p> <ul style="list-style-type: none"> infected by aphids (1) <p>(which) remove sugars from phloem (1)</p> <p>(so) not enough glucose to make proteins for growth or not enough glucose to release energy for growth (1)</p> <ul style="list-style-type: none"> lack of (available) light (1) <p>(so) chlorophyll breaks down (1)</p> <p>(so) not enough glucose to make proteins for growth or not enough glucose to release energy for growth (1)</p>	<p>allow (so) lack of chlorophyll produced causes yellow leaves (1), (so) not enough photosynthesis to produce glucose which is used to make proteins for growth (1)</p> <p>allow correctly named pathogen allow has rose black spot / TMV</p> <p>allow other symptoms of named pathogens / disease</p> <p>award once only</p> <p>award once only</p> <p>award once only</p>	<p>5</p>	<p>AO2 4.3.3.1 4.3.1.1 4.3.1.2 4.3.1.4 4.4.1.1 4.4.1.2</p> <p>AO1 4.4.2.3 4.4.1.3</p>
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05.5	(bacteria) obtain glucose / sugar (from the plant)		1	AO3
	(glucose used) for respiration or (glucose used) for making other named substances	allow (glucose used) to release energy	1	AO2 4.2.3.2 4.4.1.3
05.6	(gorse plant) obtains nitrate (ions)		1	AO2 4.1.3.3 4.4.2.3
	needed for amino acids / proteins	allow needed to make chlorophyll / DNA	1	AO1 4.3.3.1
05.7	willow bark		1	AO2 4.3.1.9
Total			13	

Question	Answers	Extra information	Mark	AO / Spec. Ref.
06.1	any two from: <ul style="list-style-type: none"> BMI / morphology / obesity level smoking habits diet medication family history of liver disease fitness levels ethnicity area of UK they live in 	ignore genetic factors allow mass / weight and height allow previous drinking habits allow medical conditions allow drug use allow level of exercise allow race	2	AO3 4.2.2.6
06.2	2.55 – 1.60 (= 0.95) ($\frac{0.95}{2.55} \times 100 = $) 37 (.2549019608...) (%)	allow 1.60 – 2.55 (= –0.95) allow value for with meals in range 1.60 to 1.65 (for 1.60) allow answer correctly calculated from values in ranges 1.60 to 1.65 and 2.50 to 2.60 allow – 37(.2549019608...)(%)	1 1	AO2 4.2.2.6
06.3	$12 \times 2 \times 7 = 168$ (g/week) 1.8	 allow in range 1.8-1.9 allow correct reading from a calculation that omits the 2 or the 7 do not accept if a unit is given	1 1	AO2 4.2.2.6

06.4	<p>any two from:</p> <ul style="list-style-type: none"> • consuming alcohol increases the RR (with / without meals) and supporting data • consuming less than 50 g/week of alcohol with meals does not increase the RR • even (small amounts of alcohol at) 25 g/week increases the RR if not with meals 	<p>allow risk for RR throughout allow data in terms of number of glasses of wine</p> <p>allow increasing alcohol consumption increases the RR at an increasing rate</p> <p>allow any value between 35 and 60 g/week</p>	2	AO3 4.2.2.6
06.5	<p>any two from:</p> <ul style="list-style-type: none"> • large number in survey • long term / 15 year survey <p>well controlled</p>	<p>allow 800 000 in survey</p> <p>if neither mark awarded allow large study</p> <p>allow many controls</p>	2	AO3 4.2.2.6
06.6	<p>any one from:</p> <ul style="list-style-type: none"> • people underestimate / overestimate alcohol consumption • people may change (lifestyle / drinking) habits over time • some people may drink all their weekly alcohol at once 	<p>allow people lie about alcohol consumption or people lie about other named control variables</p> <p>ignore survey only tested women</p>	1	AO3 4.2.2.6

06.7	Level 2: Scientifically relevant facts, events or processes are identified and given in detail to form an accurate account.	3-4	AO2 4.4.2.3 4.2.2.1
	Level 1: Facts, events or processes are identified and simply stated but their relevance is not clear.	1-2	AO1 4.4.2.2 4.2.2.6
	No relevant content	0	4.2.2.5 4.5.3.3
	Indicative content Responses may refer to either total or partial liver failure <ul style="list-style-type: none"> no bile made (in the liver) <ul style="list-style-type: none"> fats / lipids are not emulsified surface area of fats / lipids not increased pH of small intestine will not be alkaline / neutralised enzymes (in small intestine) will not work effectively or (named) food not digested / absorbed so may lose weight lactic acid not broken down / oxidised <ul style="list-style-type: none"> accumulation of lactic acid in blood / body lactic acid is toxic or body will be poisoned oxygen debt higher / prolonged so muscle pain / fatigue proteins / amino acids will not be broken down (in liver) <ul style="list-style-type: none"> (amino acids) not deaminated amino acids not made into urea or will not form ammonia (however) any ammonia formed is toxic so accumulation of amino acids in blood / body liver does not break down / remove other toxins (like alcohol) <ul style="list-style-type: none"> toxins accumulate in blood / body body will be poisoned so pain or jaundice or swollen liver or portal hypertension occurs glycogen stores will not be formed <ul style="list-style-type: none"> cannot control blood glucose so hyperglycaemia / hypoglycaemia / diabetes / coma may occur 		
Total			15

Question	Answers	Extra information	Mark	AO / Spec.Ref.
07.1	bind fluorescent dye to mAbs	ignore add mAbs and dye to slide (unbound)	1	AO2 4.3.2.2
	put (bound) fluorescent mAbs on the slide (and rinse off)		1	
	mAbs will bind to Candida albicans / pathogens and show up under the microscope	allow mAbs will bind to Candida albicans / pathogens and show up under UV (lamp)	1	
07.2	more Candida albicans / pathogens will be engulfed / killed by phagocytes / white blood cells	allow Candida albicans / pathogens will be engulfed / killed by phagocytes / white blood cells more quickly do not accept white blood cells produce antibodies do not accept lymphocytes engulf Candida albicans	1	AO2 4.2.2.3 4.3.1.6 4.3.1.7
	therefore less damage to cells / tissues / organs	ignore less toxin released (by Candida albicans)	1	

07.3	Level 2: Scientifically relevant facts, events or processes are identified and given in detail to form an accurate account.		4-6	AO1 4.3.1.9
	Level 1: Facts, events or processes are identified and simply stated but their relevance is not clear.		1-3	
	No relevant content		0	
	Indicative content <ul style="list-style-type: none">given first to healthy volunteers<ul style="list-style-type: none">at (very) low doseto test it is safe or to test for toxicity or to check for any side effectsthen to some patients (with the disease) or people with the disease<ul style="list-style-type: none">to test for the correct / optimum doseto check for any side effectsto test for efficacy or to test if it worksin a double blind trialwhere neither patients nor doctors know who has the mAbs and who has a placebo (or alternative treatment)reference to large trial or long duration or control variables			
07.4	any one from: <ul style="list-style-type: none">(the body will) not reject the mAbs or (the body is) less likely to reject the mAbsmouse mAbs are (more likely to be) rejectedthe human lymphocytes have already responded to that infection / cancer cell so they are known to work against the disease	do not accept idea of rejection of cells	1	AO3 4.3.2.2 4.3.2.1 4.3.1.6
Total			12	