

WJEC (Eduqas) Biology GCSE
Topic 1.1 Eukaryotic and
Prokaryotic Cells
Questions by Topic - Mark
Scheme

1.	Question	Marking details	Marks Available								
1	(a)	A <u>Cytoplasm</u> ; B <u>Cell</u> membrane;	2								
	(b)	(i)	3								
		<table border="1"> <thead> <tr> <th>Part of algal cell</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>nucleus</td> <td><u>Controls</u> cells (activities)/ <u>holds</u> or <u>contains</u> {chromosomes/ DNA/ genes/ genetic information} ;</td> </tr> <tr> <td>Chloroplast;</td> <td>photosynthesis</td> </tr> <tr> <td>Cell wall</td> <td>Shape/ support/ <u>rigid</u> structure/ stops cell expansion; NOT protection/ structure unqualified/ keeps it strong/ gives stability</td> </tr> </tbody> </table>	Part of algal cell	Function	nucleus	<u>Controls</u> cells (activities)/ <u>holds</u> or <u>contains</u> {chromosomes/ DNA/ genes/ genetic information} ;	Chloroplast;	photosynthesis	Cell wall	Shape/ support/ <u>rigid</u> structure/ stops cell expansion; NOT protection/ structure unqualified/ keeps it strong/ gives stability	
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Cell wall	Shape/ support/ <u>rigid</u> structure/ stops cell expansion; NOT protection/ structure unqualified/ keeps it strong/ gives stability										
		(ii) I chloroplast/ cell wall; II nucleus/ chloroplast;	2								
		Question 1 Total	[7]								

2.	Question	Marking details	Marks Available
2	(a)	(i) A line drawn outside cell membrane; Nucleus, vacuole & chloroplasts (not dots) (all needed) correctly drawn; Must be able to distinguish the three different organelles	2
		(ii) <u>{Controls/regulates/selects}</u> {the movement of substances /what} into <u>and</u> out of cell; <i>NOT protect cell/maintain shape</i>	1

Question			Marking details	Marks available					
				AO1	AO2	AO3	Total	Maths	Prac
	(a)	(i)	A = Cell membrane (1) B= Vacuole (1)	2			2		
		(ii)	Chloroplast , X (1) Respiration/ releases energy/ produces ATP/ provides energy (1) NOT anaerobic respiration/ produces energy Accept respire Nucleus ✓ (1)	3			3		

Question			Marking details	Marks Available					
				AO1	AO2	AO3	Total	Maths	Prac
	(a)		Microscope/ light microscope	1			1		1

	(d)		Contains {chromosomes/DNA/ genetic information/ genes/ controls (activities of) cell	1			1		1
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