B1 Cells	
a) The diagrams below show an animal cell and a plant cell.	
A B B B C C F X X Y Y Y	
i) Which is the plant cell?	
ii) Give THREE reasons for your choice in part i) above.	[1]
1.	
2	
3	
5	[3]
iii) Label structures A to F on the lines provided.	[6]
iv) Identify ONE property of structure D.	[1]
v) Give TWO functions of structure A .	[1]
1	
2	
vi) Structure F is missing from a particular cell type in humans. Name this	cell type.
	[1]
b) The diagram shows the	
structure of a generalised	
bacterium. Name the parts	
UU	[4]

c) Use lines to match the following structures with their features and functions.



d) i) Identify the organelles in the following electron micrographs.



ii) Explain why muscle cells in animals contain a greater number of organelle V than other cells.

	[2]
iii) Name the green pigment found in organelle W.	
,	[1]

iv) The cells closest to the upper surface of leaves contain the greatest number of organelle W. Explain the reason for this. **a**) Explain why cells become specialised in multicellular organisms

b) i) What is a tissue?

B1

[1]

[2]

ii) Complete the following table which gives information about THREE different tissue types found in humans.

Name of tissue	What the tissue is composed of	One function of the tissue
	sheets of cells	
muscle tissue		
		conducts nerve impulses

[6]

iii) Humans have a fourth tissue type known as connective tissue. Give THREE examples of connective tissues found in humans and one function of EACH.



iv) Link EACH of the following tissue types found in plants with its function or functions.

			transports water, minerals and food			
					epidermal tissue	
			supports non-woody structures when turg	id		
			protects surfaces of roots, stems and leave	S	photosynthetic tissue	
			makes food for the plant		packing tissue	
			supports stems and leaves		vascular tissue	
			stores food			[6]
c)	Co	mplete	e the following paragraph by f	illing in the mis	sing words.	
	Dif	ferent	t tissues are grouped together t	to form specialis	sed	These
	spe	cialise	ed then	work together t	o form	
			, which all wor	k together to fo	rm an	
				-		[5]
、	•		1:00			[0]
a)	1)	Defir	ne diffusion.			
						[1]
	ii)	Give	FOUR examples to support the	e following stat	ement: 'Diffusion	plays an
		impo	franc part in the lives of living	, organiisiiis.		
		1				
		2				
		3				
		4				
		-				[4]

3