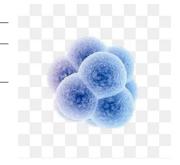
Name:	Class:	
	Total Possible Marks: 42	

Cell Differentiation and Specialisation



	1.	Match the defi	nitions to the appropria	ite titles:			
4		A Spen	m cells	a.	These cells are specialised for contraction, they are long so that they have lots of space to contract.		
		B Nerve cells (in animals)			 these cells are specialised for rapid signalling, their function being to carry electrical signals from one part of the body to another. 		
		C Muscle cells (in animals)		C.	These cells are found on the surface of plant roots and are specialised for the absorption of water and minerals.		
		D Root	hair cells (in plants)	d.		d to reproduction, and et the male DNA to the	
10	2.	A (a) cell is one that performs a specific (b) Most cells in an (c) are specialised, and a cells structure, for example its (d) and the parts it contains helps it to carry out its function. For the cell to become specialised it undergoes a process known as (e) Once a cell has become specialised (in (f) cells) the ability to differentiate his lost, however many (g) cells do not lose this ability. Cells that differentiate in mature animals are mainly used to (h) or replace cells such as (i) and (j) cells.					
		specialised repair	plant organism	blood animal	shape function	skin differentiation	
1	3.	Some types of differentiated cells are called stem cells, is this true or false? A True					
		(B) False					
3	4.	Phloem and xylem cells are specialised for transporting substances. Explain, in a short paragraph how the cells achieve their function (hint: think of pipes)					

to form organ systems. One such organ system being the digestive system which system that breaks down food in human and other mamm Label the diagram with the name of the appropriate organ write down below the function of each. A. Glands such as the pancreas and salivary glands. B. Stomach C. Liver D. Small intestine						
which form (j), which form organs (k) La systems inside them for (m) and (n) tissues	and the	process by which they				
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C. Liver D. Small intestine						
D. Small intestine						
E. Large intestine						
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