AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Cell Specialisation and Differentiation Questions

Name:



Mathsmadeeasy.co.uk

Total Marks: /26

Q1: What is a specialised cell?	
	(1 mark)
Q2: Give 2 examples of specialised animal cells.	
1:	
2:	(2 marks)
Q3: Give 2 examples of specialised plant cells.	
1:	
2:	
Q4: Explain how a sperm cell is specialised to its function	(2 marks)
	(2 marks
Q5: Explain the role of the synaptic knob in a nerve cell and give its function.	an example of
	(2marks)

Q6: What 2 types of action can a nerve cell control?	
1:	
2:	
	(2 mark
Q7: There are 3 types of muscle cell. Draw and label the 3 typ	es of muscle cells
	(6 mark
Q8: Describe the specialist function of a Xylem cell.	
	(1 mark
	(Tillark
Q9: Describe the specialist function of a Phloem cell.	
	(1 mark

Visit http://www.mathsmadeeasy.co.uk/ for more fantastic resources.

Visit http://www.mathsmadeeasy.co.uk/ for more fantastic resources.

Cell Differentiation Questions
Q10: Phloem contains fewer organelles, than other cell types. Discuss why, relating this to their specialised function.
(2 marks)
Q11: Explain why cell differentiation is important in human cells.
(2 marks)
Q12: Give an example of human cell differentiation.
(1 mark)
Q13: Human cells differentiate early on in their development. Plant cells however can differentiate throughout their life span. Explain why and give an example of plant cell differentiation.
(2 marks)