





[1 mark]

BIOLOGY Worksheet

LW13 - ACTIVE TRANSPORT & BULK TRANSPORT

Q1) Active transport is a method of transporting molecules between cells and their environment	nts .
a) Define active transport.	
b) Which of the two following statements are incorrect?	[3 marks]
A Active transport happens down the concentration gradient	
B ATP is hydrolysed to ADP to provide energy for active transport	
C Active transport happens against the concentration gradient	
D ADP is hydrolysed to ATP to provide energy for active transport	
c) Give two differences between active transport and simple diffusion, excluding energy.	[2 marks]
Q2) Active transport requires energy to transport molecules via carrier proteins. a) Why do carrier proteins require energy?	[4 marks]
ay willy do carrier proteins require energy.	F. 1.3
b) Explain how energy is provided to carrier proteins in active transport?	[1 mark]
c) Describe how glucose may be transported across the membrane via active transport?	[2 marks]
	[3 marks]
Q3) Bulk transport methods, such as endocytosis and exocytosis, are used to transport certain substances.	
a) Explain why bulk transport is required?	
b) Why is energy required?	[2 marks]
c) What is endocytosis?	[1 mark]







[TOTAL 27 MARKS]

d)	Explain how endocytosis transports substances?	
		[4 marks]
Q4	Endocytosis and exocytosis are very similar processes as they both transport large substance	es.
a)	Give one difference between the two.	
b)	Explain how exocytosis transports substances	[2 marks]
c)	Which of the following statements is correct?	[2 marks]
	A Phagocytosis is the exocytosis of solids	
	B Cytoskeleton is required in bulk transport	
	C Pinocytosis is the exocytosis of liquids	
	D Cholesterol is required in bulk transport	
		[1 mark]