

01.0610\_w19\_MS\_41 Q: 1

	Answer	Mark	Partial Marks										
(a)	many (body) segments ; head and, body (segments) / AW ; many legs / many pairs of legs; elongated bodies ;	2											
(b)	crustaceans ; arachnids ; insects ;	2											
(c)	<table border="1"> <thead> <tr> <th>class</th> <th>letter(s) of species from Fig. 1.3 in each class</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>J</td> </tr> <tr> <td>2</td> <td>L</td> </tr> <tr> <td>3</td> <td>M,</td> </tr> <tr> <td>4</td> <td>K,N,O</td> </tr> </tbody> </table>	class	letter(s) of species from Fig. 1.3 in each class	1	J	2	L	3	M,	4	K,N,O	3	4 rows correct = 3 2 or 3 rows correct = 2 1 row correct = 1
class	letter(s) of species from Fig. 1.3 in each class												
1	J												
2	L												
3	M,												
4	K,N,O												
(d)(i)	(genus) <i>Apheloria</i> ; (kingdom) animal ;	2											
(d)(ii)	no (aerobic) respiration ; ora cannot release energy ; ora	1											

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	Answer	Mark	Partial Marks
(a) (i)	<b>A</b> cytoplasm ; <b>B</b> nucleus ;	[2]	
(ii)	forms a barrier between the cell and its surroundings ; keeps contents of cell inside ; allows/controls/(movement of) substances, into/out, of the cell / across membrane ;	[max 1]	
(iii)	irregular shape/rounded shape/not columnar/not cylindrical/not rectangular/no specific shape ;	[1]	<b>A ORA</b> if palisade cell specified
(b)	large surface area ; more surface for respiration ; allows, increased/faster/efficient, respiration ;	[max 1]	<b>A</b> more surface area for enzymes
(c)	1 mitochondria are site of aerobic respiration/production of (most of the) ATP ; 2 liver cell / heart cell, is very active/use lots of energy/respire more ; 3 e.g. function of liver cell or heart cell ; 4 sperm cells, are active/swim/beating flagella ; 5 sperm cells have few mitochondria, as they are small ; 6 red blood cells, full of haemoglobin/more space for oxygen/AW ; 7 red blood cells, use less energy/do not actively move ;	[max 4]	<b>mpt 1</b> I respiration <b>R</b> anaerobic <b>mpt 3</b> e.g. active transport / making enzymes / making bile / muscle contraction / heart pumping <b>mpt 4</b> I move unqualified <b>mpt 7</b> I do not need any energy
		[Total: 9]	