## **Mark scheme - Transport in Animals - MCQ**

	Questi on		Answer/Indicative content	Marks	Guidance
1			B√	1	
			Total	1	
2			A√	1	
			Total	1	
3			D√	1	
			Total	1	
4			B√	1	
			Total	1	
5			C√	1	
			Total	1	
6			В	1	
			Total	1	
7			A✓	1	
			Total	1	
8			C√	1	Examiner's Comments  Option A provided a distractor and common incorrect response to the correct option C in this question, as statement 1 relating to the cells synthesising ecdysone, would not form part of an explanation for the site of action of the hormone.
			Total	1	
9			B√	1	
			Total	1	
1 0			C√	1	Examiner's Comments  The correct answer, C, was selected by many candidates. Many candidates seemed to have difficulty in matching their familiar vertical section of a heart to the cross section even

				though the bicuspid and tricuspid valves should have been easy to recognise.
		Total	1	
1		A✓	1 (AO2.6)	
		Total	1	
1 2		С	1 (AO2.2)	
		Total	1	
1		В	1 (AO2.8)	
		Total	1	
1		В	1 (AO2.6)	
		Total	1	
1 5		D√	1	Examiner's Comments  This question tests understanding of the Bohr effect. Candidates find this a difficult topic and many link more hydrogen ions to higher pH. Those that understand the pH scale then incorrectly link a fall in pH to a rise in affinity of haemoglobin for oxygen. Only the most able candidates reliably got this correct.
		Total	1	
1 6		<b>B</b> √	1	Examiner's Comments  Candidates should be well aware that insects have a single open circulatory system. Daphnia are small crustaceans closely related to insects. Most candidates were able to spot this link and give the correct response.
		Total	1	
1 7		A✓	1	Examiner's Comments  This was well answered. It was, however, surprising the number of candidates who

				thought that the vessel described was a capillary.
		Total	1	
1 8		A✓	1	ACCEPT B Examiner's Comments  Candidates could reasonably suggest either A or B as correct answers and both were credited in order to be fair to candidates.
		Total	1	
1 9		c <b>√</b>	1	Examiner's Comments  This was answered quite well. Option <b>B</b> was a common incorrect suggestion.
		Total	1	
2		D	1	
		Total	1	
2		A	1	
		Total	1	
2		В	1	
		Total	1	
2		D	1	
		Total	1	