

Practice answers

B11



Question	Answers	Extra information	Mark	AO / Specification reference
01.1	distance the ruler fell		1	AO2
				4.5.2.1
01.2	 any one from: drop the ruler from the same height each time let the ruler drop without using any force use same ruler each time thumb should be same distance from the ruler at the start 		1	AO2 4.5.2.1
	carry out the experiment with the lower arm resting in the same way on the table			
01.3	0.39 / result 3, left hand		1	AO2 4.5.2.1
01.4	0.25		1	AO2 4.5.2.1 MS2b, 2f
01.5	the mean for the left hand results was quicker than the mean for the right hand results		1	AO3 4.5.2.1
01.6	there is very little difference between the left and right handed results / a very small sample was used		1	AO3 4.5.2.1
02.1	the regulation of internal conditions in response to external or internal changes		1	AO1 4.5.1
02.2	blood glucose concentration body water concentration		1 1	AO1 4.5.1



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	situation can improve with learning			4.5.2.1
	person's response time / a person's reaction time to a			4.5.2.1
03.4	the more times the experiment is repeated the faster the		1	AO3
03.3				4.5.2.1
	distraction	accent any other sensible suggestion	1	4.5.2.1
03.2	repeat number 7 (0.45)		1	AO2
	control variable - Use the same computer key			
	repeated dependent variable - reaction time	one mark for 1 or 2 boxes correct		4.5.2.1
03.1	independent variable - number of times stimulus was	two marks for all 3 boxes correct	2	A02
	effectors		1	
	coordination centres		1	
	receptors		1	
	automatic		1	4.5.1
02.3	nervous		1	A01



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	 consist of receptors, co-ordination centres and effectors receptors detect stimuli example for receptor stated such as light / sound / temperature / pressure / other named receptor co-ordination centre processes information 			4.5.1
	 effectors receptors detect stimuli example for receptor stated such as light / sound / temperature / pressure / other named receptor co-ordination centre processes information 			
	 receptors detect stimuli example for receptor stated such as light / sound / temperature / pressure / other named receptor co-ordination centre processes information 			
	 example for receptor stated such as light / sound / temperature / pressure / other named receptor co-ordination centre processes information 			
	 temperature / pressure / other named receptor co-ordination centre processes information 			
	co-ordination centre processes information			
	 co-ordination centre named – brain / spinal cord / 			
	pancreas / other named control centre			
	 effectors bring about a change 			
	 named effector – muscle /gland 			
r	response described – muscle contracts / gland secretes			
ł	hormone			
05.1	a stimulus		1	A01
ā	a receptor		1	4.5.2.1
ā	an impulse		1	
7	The brain		1	
	an effector		1	
05.2 ^r	muscle		1	A01
{	gland		1	4.5.2.1
05.3 ^r	relay neurone - transmits impulses within the CNS	two marks for all 3 correct. Award one mark for 1	2	A01
r	motor neurone - transmits impulses between the CNS and	correct		4.5.2.1
E	effectors			
	and the CNS			
č			1	401
05.4	synapse		L L	AUI 4521
	hlinking		1	4.3.2.1
U6.1	coughing		1	AUZ 4521



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06.2	rapid		1	AO1
	automatic		1	4.5.2.1
06.3	В	three marks for all four correct sentence positions	3	AO2
	D	two marks for two or three correct sentence		4.5.2.1
	С	positions		
	A	one mark for one correct sentence position		
07.1	blood glucose concentration		1	AO1
	body temperature		1	4.5.1
07.2	receptors - detect changes in the environment	two marks for all 3 correct. Award one mark for 1	2	AO1
	effectors - bring about responses	correct		4.5.1
	coordination centres - receive and processes information			
07.3	brain / spinal cord / pancreas		1	AO1
				4.5.1
08.1	whether caffeine has been drunk or not		1	AO2
				4.5.2.1
08.2	height ruler was dropped from / rest hand on table / don't		1	AO2
	apply a force when dropping the ruler / amount of caffeine			4.5.2.1
	taken			
08.3	speeds up		1	AO3
	decreases		1	4.5.2.1
08.4	repeat investigation / use a larger sample size	accept any sensible suggestion	1	AO3
				4.5.2.1
09.1	stimulus		1	AO2
				4.5.1
				4.5.2.1
09.2	brain		1	AO2
				4.5.1
				4.5.2.1



09.3	driver would have reacted faster to the insect	1	AO2
	responded with a reflex action	1	4.5.2.1
	the conscious part of the brain was not involved / impulse	1	
	relayed via CNS		

