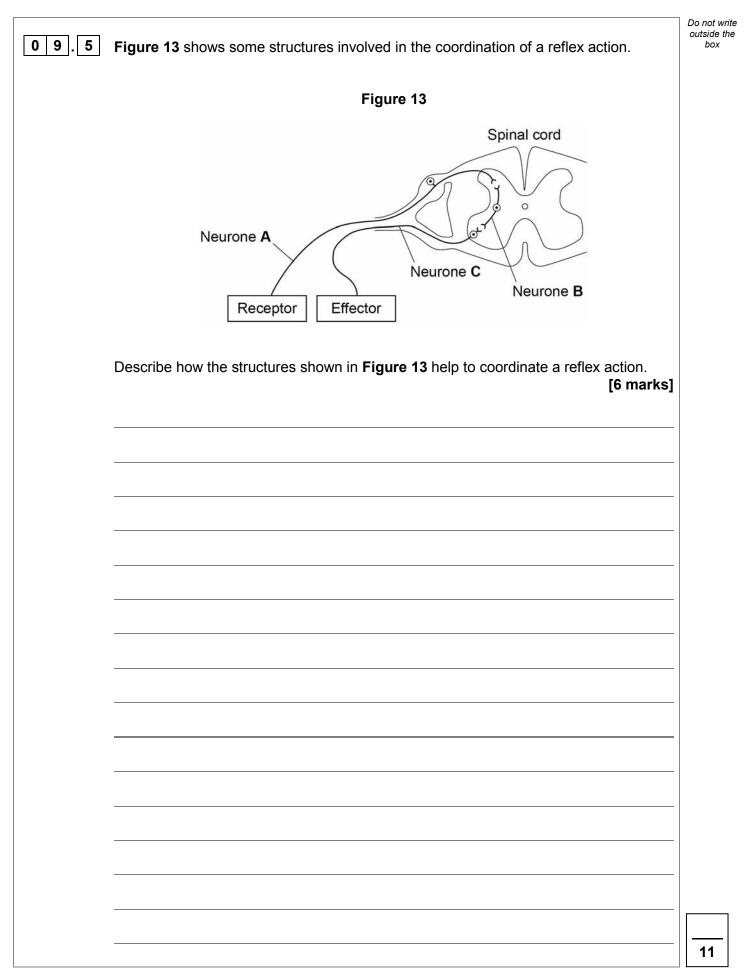




09.3	Structure Q causes the change in size of the pupil.	Do not write outside the box
	Name structure Q . [1 mark]	
09.4	Describe how structure Q causes the change in the size of the pupil from A to B . [1 mark]	
	Question 9 continues on the next page	
	Turn over ►	







Question	Answers	Extra information	Mark	AO / Spec. Ref.
09.1	releasing saliva when food enters the mouth		1	AO2 4.5.2.1
	withdrawing the hand from a sharp object		1	
09.2	bright light	allow described method of increasing light	1	AO1 4.5.2.3
		ignore light unqualified allow correctly named drug eg morphine / heroin		
09.3	iris		1	AO1 4.5.2.3
09.4	muscle contraction	allow muscles shorten ignore radial / circular ignore muscles relax / constrict do not accept muscles expand do not accept ciliary muscle contracts	1	AO1 4.5.2.3

Question	Answers	Mark	AO / Spec. Ref.	
09.5	Level 2: Scientifically relevant facts, events or processes are identified and given in detail to form an accurate account.	4–6	AO1 4.5.2.1	
	Level 1 : Facts, events or processes are identified and simply stated but their relevance is not clear.			
	No relevant content	0	-	
	Indicative content			
	 receptor detects stimulus eg receptor detects pressure receptor generates impulses / electrical signals neurones conduct impulses / electrical signals neurone A conducts impulses to spinal cord neurone A = sensory neurone synapse between neurones chemical (/ neurotransmitter) crosses synapse chemical stimulates impulse(s) in neurone B neurone B = relay neurone neurone C = motor neurone effector carries out response eg muscles of the arm / leg contract muscles contract or gland secretes chemicals 			
	to access level 2 , candidates need to consider, in terms of the indicative content, the receptor, the neurones and the effector in the correct sequence			
Total		11]	