1 The photograph below shows Usain Bolt, an elite sprinter. He won a gold medal in the 100 metre final at the 2012 Olympic Games in a time of 9.63 seconds.



(a)	fibres. Suggest why these muscles are less red in colour than muscles with many slow twitch muscle fibres.	
		(2)
(b)	The pH of the blood of a sprinter falls during a race and returns to its original level after the race.	
	(i) State the homeostatic control mechanism that returns the pH of blood to its original level.	
	Original level.	(1)

after a race.		
arter a race.	(5)	

(III) During the race, heat is generated and is lost from the body through the skir	1.
Describe how muscle, present in blood vessels in the skin, helps to increase heat loss from the body.	
	(4)
(Total for Question 1 = 12 n	narks)