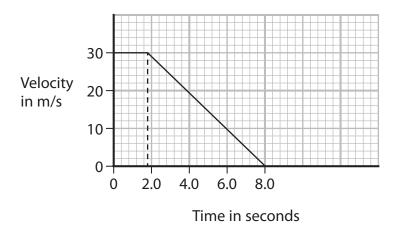
4 The diagram shows a velocity-time graph for a car from the time the driver sees an obstacle in the road until the car comes to rest.



(a) (i) Calculate the acceleration of the car between 1.8 and 8.0 seconds.

(3)

(ii) Calculate the braking distance of the car.

(3)

(iii) Explain the effect, if any, of increased driver tiredness on the thinking distance
and on the braking distance of the car.

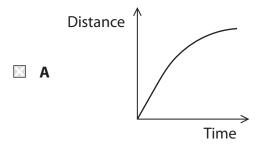
(4)

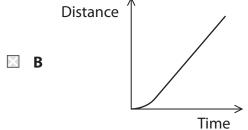
thinking distance.	 	

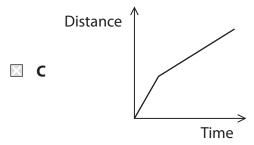
braking distance

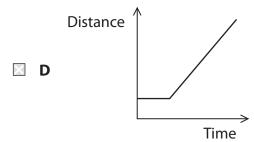
(b) Which of these represents the distance-time graph for the car?

(1)









(Total for Question 4 = 11 marks)