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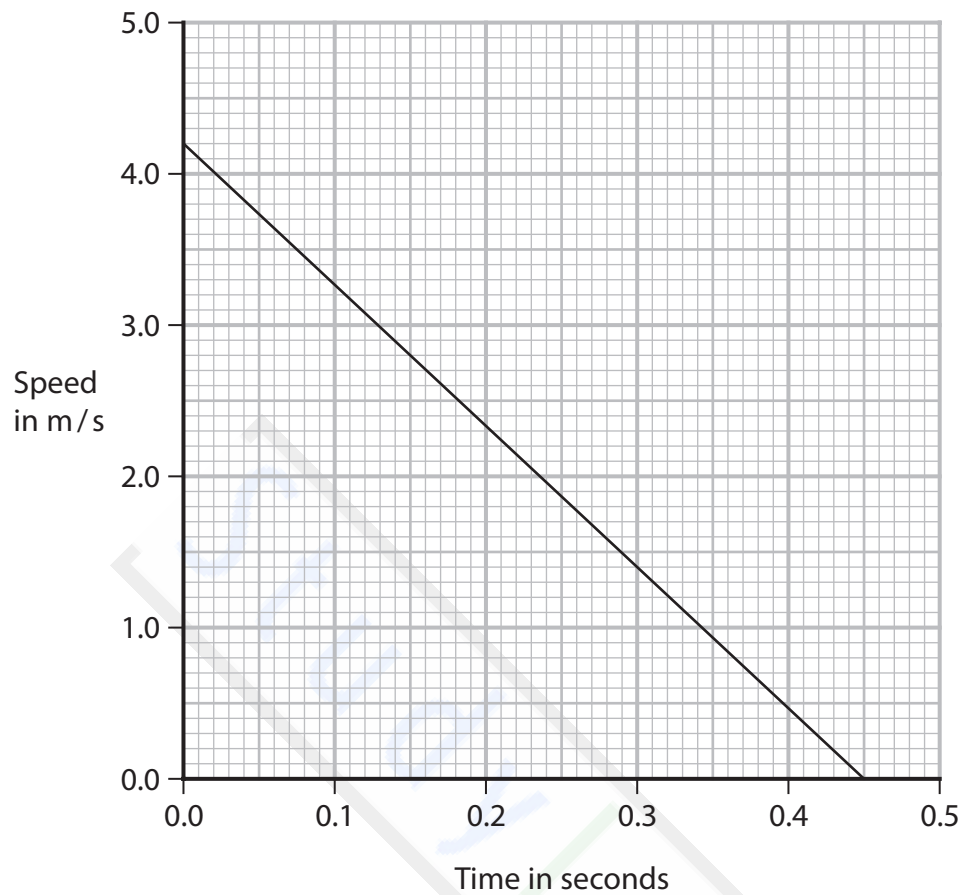


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- 6 (a) A person throws an object vertically upwards.

The speed-time graph shows how the speed of the object varies from the time it is thrown until reaching its maximum height.



- (i) Calculate the acceleration of the object.

(3)

acceleration = m/s^2

- (ii) Calculate the distance the object travels to reach its maximum height.

(3)

distance = m

(iii) Explain the shape of the graph from A to C.

You should use ideas about forces to help your answer.

(4)

(Total for Question 6 = 15 marks)

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(i) Explain why the coil starts to rotate when there is a current in the coil.

(4)

(ii) Which side of the coil moves vertically upwards?

(1)

- ☐ **A** WX
- ☐ **B** XY
- ☐ **C** YZ
- ☐ **D** ZW

(Total for Question 12 = 9 marks)

TOTAL FOR PAPER = 110 MARKS