

- (iii) What is the average speed of the car between B and C?

(3 marks)

- (iv) If the mass of the car is 750 kg, find the braking force that slows the car between B and C.

(5 marks)

Total 16 marks

9. (a) Figure 2 below shows a shiny kettle which is placed on a gas stove to heat the water inside it.

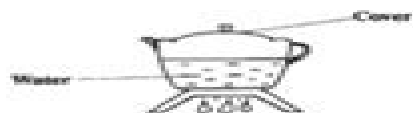


Figure 2

- (i) By what process is heat transferred to the water through the kettle?

(1 mark)

- (ii) Explain why kettles are usually shiny on the outside.

(1 mark)

- (iii) How does the cover prevent heat losses?

(2 marks)

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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