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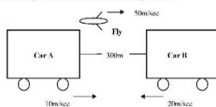
Department of Computer Science and Engineering  
IIT Bombay  
PhD Admission Test  
(Model Paper)

Attempt any three sections. Each section has 6 questions of 5 marks each. An explanation for the answer is a must and should be given in the space provided.

(only 3 questions are given in each section by way of examples for the model question)

Section 1 (General Aptitude)

(1) A car A is approaching at a speed of 10m/sec another car B moving in the opposite direction at a speed of 20m/sec as shown in the diagram below.



A fly whose absolute speed is 50m/sec goes repeatedly from A to B and back, without leaving any time at any of the cars. This repeated moving back and forth stops when the two cars crash into each other. Answer the following:

- The distance travelled by the fly before the collision is \_\_\_\_\_ m.
- The number of trips made by the fly back and forth is \_\_\_\_\_

Explanation:

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