Answer all questions.

Section A: Definitions

Match the terms with the correct definitions.

Distance	•	• Straight line distance between two points
Displacement	•	• Rate of change of displacement
Speed	•	• Rate of change of velocity
Velocity	•	• Total length covered by a moving object
Acceleration	•	• Rate of change of distance

Section B: Application

Answer the following questions briefly.

1. A runner runs around a 400 m circular track and finishes at the starting point. What is the distance and displacement?

Distance: _____ m Displacement:_____ m

2. A car travels 100 m north in 20 s. Calculate its average speed and average velocity.

Average speed: _____ m s^{-1} Average velocity: _____ m s^{-1}

Section C: Quick Reflection

In one sentence, explain: Why is velocity different from speed?

Answer:

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