



16. When a body moves in a straight line then its displacement coincides with
- A. distance
  - B. force
  - C. acceleration is zero
  - D. both (a) and (b)

**Answer:** Option A

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17. Which of the following pair has same direction always?
- A. force, displacement
  - B. force, velocity
  - C. force, acceleration
  - D. force, momentum

**Answer:** Option c

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18. Motorcycle safety helmet extends the time of collision hence decreasing the
- A. chance of collision
  - B. force acting
  - C. velocity
  - D. impulse

**Answer:** Option D

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19. The collision between two bodies be elastic if bodies are
- A. solid and soft
  - B. soft and elastic
  - C. solid and hard
  - D. hard and elastic

**Answer:** Option c

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20. During long jump, athlete runs before taking the jump. By doing so he
- A. provide him a larger inertia
  - B. decreases his inertia
  - C. decreases his momentum
  - D. increases his momentum

**Answer:** Option D