

Q1. The rate of change of velocity is called _____ .

Q2. Speed is a vector or scalar and why ?

- Q3. A B
- (i) Carbon (A) 0.02 to 0.1%
 - (ii) Silicon (B) 0.02 to 0.4%
 - (iii) Manganese (C) 0.02 to 0.03%
 - (iv) Sculpture (D) 0.01 to 0.2%

- Q4. A B
- (i) Drawn into wires (A) Tenacity
 - (ii) To withstand shock or impact (B) Brittleness
 - (iii) Ability to resist the effect of tensile force without rupturing (C) Toughness
 - (iv) Easy to break into pieces (D) ductility

Q5. Momentum = Mass X _____ .
(A) Acceleration (B) Velocity (C) Speed (D) Displacement

Q6. $S = ut + \frac{1}{2} a t^2$
(A) At (B) a/t (C) at^2 (D) ut^2

Q7. Write the second law of Newton.

Q8. Prove that $v^2 - u^2 = 2as$?

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