

7 What is the principle of conservation of momentum?

A Force is equal to the rate of change of momentum.

B Momentum is the product of mass and velocity.

C The total momentum of a system remains constant provided no external force acts on it.

D The total momentum of two bodies after collision is equal to their total momentum before collision.

8 Water is pumped through a hose pipe at a rate of 20 kg per minute. It emerges from the