

**12** A mass accelerates uniformly when the resultant force acting on it

**A** is zero.

**B** is constant but not zero.

**C** increases uniformly with respect to time.

**D** is proportional to the displacement from a fixed point.

**13** A lead pellet of mass  $10.0\text{ g}$  is shot horizontally into a stationary wooden block of mass  $100\text{ g}$ . The