

- 2** A body is thrown vertically upwards in a medium in which the viscous drag cannot be neglected. If the times of flight for the upward motion t_u and the downward motion t_d (to return to the same level) are compared, then
- A** $t_d > t_u$, because the body moves faster on its downward flight and therefore the viscous force is greater.
 - B** $t_d < t_u$, because the effect of the viscous force is greatest at the moment of projection.
 - C** $t_d = t_u$, because effect of the viscous force is the same whether the body is moving upwards or downwards.
 - D** $t_d > t_u$, because at a given speed the net accelerating force when the body is moving downwards is smaller than the retarding force when it is moving upwards.