A ball of mass 50 gm falls from a height of 10 m . It rebounds with decreased speed having left with just $\frac{1}{4}$ th of its initial mechanical energy. If it remains in contact with the ground for small time $\delta t$, what is the impulse of the impact force? $\left[g=9.8 m s^{-2}\right.$ ]
(A) 0.35 Ns
(B) 1.05 Ns
(C) 0.7 Ns
(D) $\delta t$ is needed to solve

## Solution



Hence, (B)

