a pingpong ball and a golf ball are dropped ina vacuum chamber from the same height and at the same time. When they have fallen halfway, they have the same
a. Potential energy
b. Kinetic energy
c. Acceleration
d. Velocity

Answer:
Such as ping-pong ball and a golf ball have a different mass.
The potential and energy depend from the mass:
$E_{p}=m g H$
$E_{k}=\frac{1}{2} m v^{2}$
In a vacuum the acceleration of free falling does not depend from the mass and follow this acceleration and velocity is equal for all bodies.

$$
\begin{aligned}
& g=9.8 \mathrm{~m} / \mathrm{s}^{2} \\
& v=g t
\end{aligned}
$$

Answers "C" and "D".

