17 A mass is raised vertically. In time t, the increase in its gravitational potential energy is E_p and the increase in its kinetic energy is E_k.

What is the average power input to the mass?

A $(E_p - E_k)t$

B $(E_p + E_k)t$

C $\dfrac{E_p - E_k}{t}$

D $\dfrac{E_p + E_k}{t}$

[Turn over