1   A student hypothesizes that the period of an oscillating mass-spring system T is related to its mass m and spring constant k. In an experiment, the student obtains the relationship

$$T = Cm^{1/2}k^{-1/2}$$

where C is a constant.

Which of the following gives the unit of C?

A   s

B   s $N^{1/2}$ $m^{-1/2}$

C kg^{-1}

D C does not have a unit.