2 A radio aerial of length L, when the current is I, emits a signal of wavelength λ and power P. These quantities are related by

$$P = kI^2\left(\frac{L}{\lambda}\right)^2$$

where k is a constant.

What unit, if any, should be used for the constant k?

A   volt

B   ohm

C   watt

D   no unit

3   A ball is thrown vertically upwards and returns along the same path. The graph shows how its