4   The spring constant k of a coiled wire spring is given by the equation

$$k = \frac{Gr^4}{4nR^3}$$

where r is the radius of the wire, n is the number of turns of wire and R is the radius of each of the turns of wire. The quantity G depends on the material from which the wire is made.

What is a suitable unit for G?

A $N\,m^{-2}$ **B** $N\,m^{-1}$ **C** $N\,m$ **D** $N\,m^2$

Space for working