- If a wire is stretched to make it 0.1% longer, its resistance [2011] will:
- increase by 0.2% (b) decrease by 0.2%
 - decrease by 0.05%
- (d) increase by 0.05%
- Resistance of wire **05**

$$R = \frac{\rho l}{A} = \frac{\rho l^2}{C}$$
 (where $Al = C$)

.. Fractional change in resistance

$$\frac{\Delta R}{R} = 2\frac{\Delta l}{l}$$

.: Resistance will increase by 0.2%