

Q1. 23 January Shift 1

The strain-stress plot for materials A, B, C and D is shown in the figure. Which material has the largest Young's modulus?



- (1) D (2) B (3) C (4) A

Q2. 28 January Shift 1

Two wires A and B made of different materials of lengths 6.0 cm and 5.4 cm, respectively and area of cross sections $3.0 \times 10^{-5} \text{ m}^2$ and $4.5 \times 10^{-5} \text{ m}^2$, respectively are stretched by the same magnitude under a given load. The ratio of the Young's modulus of A to that of B is $x : 3$. The value of x is ____.

- (1) 2 (2) 1 (3) 4 (4) 5

ANSWER KEYS

1. (2)

2. (4)