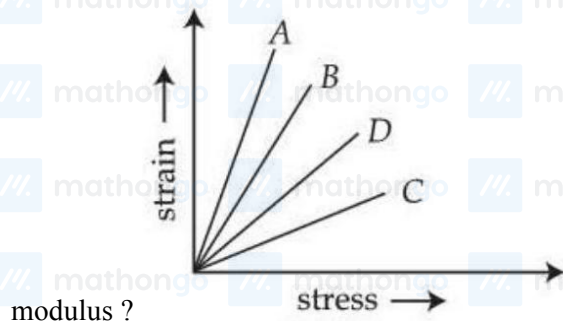


## Q1. 23 January Shift 1

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



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

## Q2. 28 January Shift 1

Two wires  $A$  and  $B$  made of different materials of lengths  $6.0\text{ cm}$  and  $5.4\text{ cm}$ , 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)