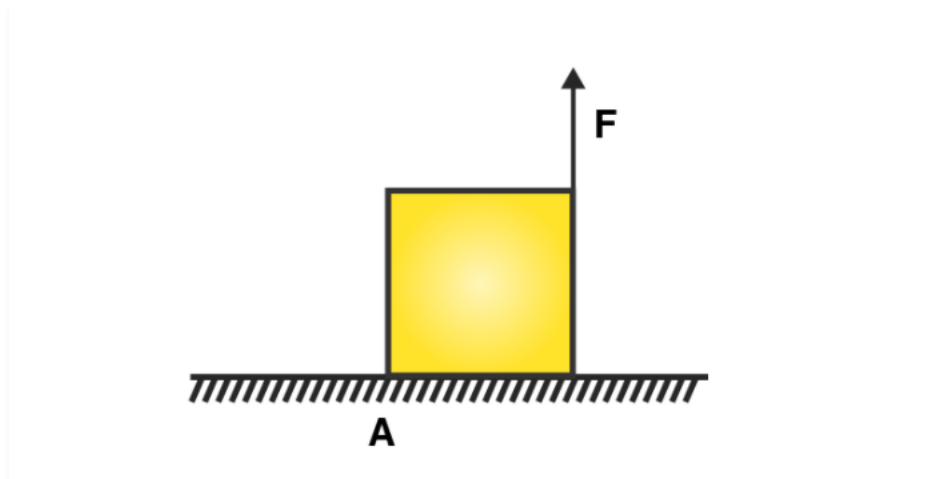


7.17. A uniform cube of mass m and side a is placed in a frictionless horizontal surface. A vertical force F is applied to the edge as shown in the figure.



Match the following

a) $mg/4 < F < mg/2$	i) cube will move up
b) $F > mg/2$	ii) cube will not exhibit motion
c) $F > mg$	iii) cube will begin to rotate and slip at A
d) $F = mg/4$	iv) normal reaction effectively at $a/3$ from A, no motion

Answer:

- a) matches with ii)
- b) matches with iii)
- c) matches with i)
- d) matches with iv)