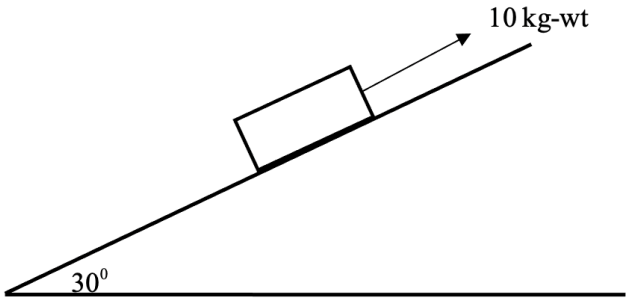
Question 31



A box of mass 10 kg is at rest on a plane inclined at angle of 30^0 to the horizontal.
A force of magnitude 10 kg-wt acting up and parallel to the plane is applied to the box.

For equilibrium to be maintained, the co-efficient of friction between the box and the plane must be

A. at least $\frac{\sqrt{3}}{3}$

B. less than $\frac{\sqrt{3}}{3}$

C. at least $\frac{g-2}{g\sqrt{3}}$

D. less than $\frac{g-2}{g\sqrt{3}}$

E. at least $5g\sqrt{3}$

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