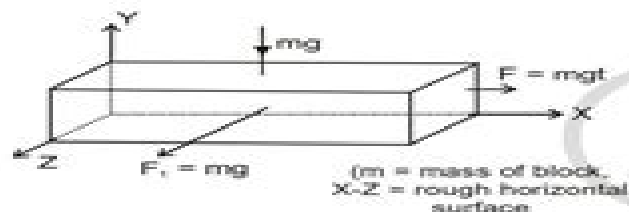


7. Two uniform solid cylinders A and B each of mass 1 kg are connected by a light spring of force constant 200 N/m at their axes and are placed on a fixed wedge as shown in the figure. The coefficient of friction between the wedge and the cylinders is 0.2. The angle made by the line AB with the horizontal in equilibrium is



- (A) 0° (B) 15°
(C) 30° (D) None of these
8. A block is placed on a rough horizontal plane (x-z plane) with coefficient of friction is equal to μ . In each of Y and Z directions constant force mg is applied as shown, and in the X-direction a time varying force $F = mgt$ is applied, where t is time. If block starts moving at time $t = 1$ s. Then value of μ is



- (A) $\frac{1}{2}$ (B) $\frac{1}{\sqrt{2}}$
(C) $\frac{1}{\sqrt{3}}$ (D) $\frac{1}{3}$
9. A block of mass m slides down an inclined wedge of same mass m shown in the figure. Friction is absent everywhere. Magnitude of acceleration of the center of mass of the block and wedge is



- (A) Zero (B) $\frac{g \sin^2 \theta}{(1 + \sin^2 \theta)}$
(C) $\frac{g \cos^2 \theta}{(1 + \sin^2 \theta)}$ (D) $\frac{g \sin \theta}{(1 + \cos \theta)}$

10. A block of mass $m = 5$ kg is placed on the wedge of mass $M = 32$ kg as shown in the figure. Find the acceleration of wedge with respect to ground on releasing the system from rest. (Neglect any type of friction. String and pulley are ideal)



- (A) $\frac{1}{2} m/s^2$ (B) $\frac{3}{4} m/s^2$
(C) $\frac{4}{3} m/s^2$ (D) $\frac{3}{5} m/s^2$
11. A block is kept on a smooth inclined plane of angle of inclination θ that moves with a constant acceleration so that the block does not slide relative to the inclined plane. If the inclined plane stops, the ratio of final and initial normal contact forces offered by the plane on the block will be (velocity gained by block is negligible)

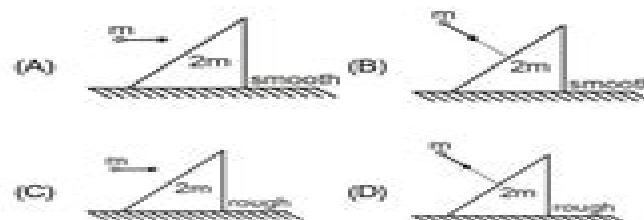
- (A) $\cos \theta$ (B) $\sec^2 \theta$
(C) $\cos^2 \theta$ (D) $\tan^2 \theta$

SECTION - B

Multiple Correct Answer Type

This section contains multiple choice questions. Each question has 4 choices (A), (B), (C) and (D) for its answer, out of which **ONE OR MORE** is/are correct.

12. In which of the following systems linear momentum of mass m and wedge cannot be conserved during collision along horizontal line



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N Colangelo



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