

- * 9. A particle of mass m is projected from the ground with an initial speed u_0 at an angle α with the horizontal. At the highest point of its trajectory, it makes a completely inelastic collision with another identical particle, which was thrown vertically upward from the ground with the same initial speed u_0 . The angle that the composite system makes with the horizontal immediately after the collision is

- (A) $\frac{\pi}{4}$ (B) $\frac{\pi}{4} + \alpha$ (C) $\frac{\pi}{4} - \alpha$ (D) $\frac{\pi}{2}$

Sol.

(A) Velocity of particle performing projectile motion at highest point
 $= v_1 = v_0 \cos \alpha$

Velocity of particle thrown vertically upwards at the position of collision

$$= v_2^2 = u_0^2 - 2g \frac{u^2 \sin^2 \alpha}{2g} = v_0 \cos \alpha$$

So, from conservation of momentum

$$\tan \theta = \frac{mv_1 \cos \alpha}{mv_2 \cos \alpha} = 1$$

$$\Rightarrow \theta = \pi/4$$



10. A pulse of light of duration 100 ns is absorbed completely by a small object initially at rest. Power of the pulse is 30 mW and the speed of light is 3×10^8 m/s. The final momentum of the object is

- (A) 0.3×10^{-17} kg ms⁻¹ (B) 1.0×10^{-17} kg ms⁻¹
 (C) 3.0×10^{-17} kg ms⁻¹ (D) 9.0×10^{-17} kg ms⁻¹

Sol.

(B) $t = 100 \times 10^{-9}$ sec, $P = 30 \times 10^{-3}$ Watt, $C = 3 \times 10^8$ m/s

$$\text{Momentum} = \frac{Pt}{C} = \frac{30 \times 10^{-3} \times 100 \times 10^{-9}}{3 \times 10^8} = 1.0 \times 10^{-17} \text{ kg ms}^{-1}$$

SECTION - 2 : (One or more options correct Type)

This section contains 5 multiple choice questions. Each question has four choices (A), (B), (C) and (D) out of which ONE or MORE are correct.

11. In the circuit shown in the figure, there are two parallel plate capacitors each of capacitance C . The switch S_1 is pressed first to fully charge the capacitor C_1 and then released. The switch S_2 is then pressed to charge the capacitor C_2 . After some time, S_2 is released and then S_1 is pressed. After some time,

- (A) the charge on the upper plate of C_1 is $2CV_0$.
 (B) the charge on the upper plate of C_1 is CV_0 .
 (C) the charge on the upper plate of C_1 is 0.
 (D) The charge on the upper plate of C_2 is $-CV_0$.



Sol.

(B, D)

After switch S_1 is closed, C_1 is charged by $2CV_0$, when switch S_2 is closed, C_1 and C_2 both have upper plate charge CV_0 .

When S_3 is closed, then upper plate of C_2 becomes charged by $-CV_0$ and lower plate by $+CV_0$.

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