

⇒ In option (A) particle reaches at origin with positive kinetic energy

$$\frac{dU(z)}{dz} = 0 \text{ at } z = \frac{3R}{\sqrt{7}}$$

$$\text{at } \beta = \frac{1}{4} \text{ and } z = \frac{3R}{\sqrt{7}}$$

$$U(z)_{\text{net}} = \sqrt{7}Rc = 2.645$$

⇒ In option B at  $U(z)_{\text{net}} = 3Rc$

⇒ The kinetic energy at origin will become negative

$$\text{at } z = \frac{R}{\sqrt{3}}$$

⇒ In option (C),  $U(z)_{\text{net}}$  at  $z = \frac{R}{\sqrt{3}} < U(z)_{\text{net}}$  at  $z = 0$ .

$$\text{And } U(z)_{\text{net}} \text{ at } z = \frac{R}{\sqrt{3}} > U(z)_{\text{net}} \text{ at } z = \frac{3R}{\sqrt{7}}$$

⇒ Particle will return back to  $z_0$

In option (D) ( $\beta > 1$ ,  $z_0 > 0$ )

$U(z)_{\text{net}}$  will keep on increasing with  $z$

⇒ Particle always reaches the origin.

⇒ Answer (A, C, D)

13. A double slit setup is shown in the figure. One of the slits is in medium 2 of refractive index  $n_2$ . The other slit is at the interface of this medium with another medium 1 of refractive index  $n_1$  ( $> n_2$ ). The line joining the slits is perpendicular to the interface and the distance between the slits is  $d$ . The slit widths are much smaller than  $d$ . A monochromatic parallel beam of light is incident on the slits from medium 1. A detector is placed in medium 2 at a large distance from the slits, and at an angle  $\theta$  from the line joining them, so that  $\theta$  equals the angle of refraction of the beam. Consider two approximately parallel rays from the slits received by the detector.



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