

$$\begin{aligned} \therefore v_B &= \sqrt{\frac{2G \times \left(2M_A + \frac{7}{8}M_A\right)}{\frac{(15)^{\frac{1}{3}}R}{2}}} \\ &= v_0 \times \sqrt{\frac{23 \times 2}{8 \times (15)^{\frac{1}{3}}}} \\ \therefore \frac{v_B}{v_A} &= \sqrt{\frac{23}{(15)^{\frac{1}{3}}}} = \sqrt{\frac{2.30 \times 10}{(15)^{\frac{1}{3}}}} \end{aligned}$$

$$\therefore n = 2.30$$

2. The minimum kinetic energy needed by an alpha particle to cause the nuclear reaction ${}^{16}_7\text{N} + {}^4_2\text{He} \rightarrow {}^3_1\text{H} + {}^{19}_8\text{O}$ in a laboratory frame is n (in MeV). Assume that ${}^{16}_7\text{N}$ is at rest in the laboratory frame. The masses of ${}^{16}_7\text{N}$, ${}^4_2\text{He}$, ${}^3_1\text{H}$ and ${}^{19}_8\text{O}$ can be taken to be 16.006 u, 4.003 u, 1.008 u and 19.003 u, respectively, where $1 \text{ u} = 930 \text{ MeV}c^{-2}$. The value of n is _____.

Answer (2.33)

Sol. $Q = (m_N + m_{\text{He}} - m_{\text{H}} - m_{\text{O}}) \times c^2$

$$= (16.006 + 4.003 - 1.008 - 19.003) \times 930 \text{ MeV}$$

$$= -1.86 \text{ MeV}$$

$$= 1.86 \text{ MeV energy absorbed.}$$

And, $\frac{1}{2} \times \frac{m \times 4m}{5m} \times v^2 = \text{max loss in kinetic energy}$

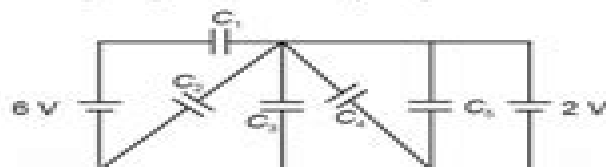
$$\Rightarrow \frac{1}{2}mv^2 = \frac{5}{4} \times Q$$

$$= \frac{5}{4} \times (1.86) \text{ MeV}$$

$$= 2.325 \text{ MeV}$$

$$\therefore n = 2.33$$

3. In the following circuit $C_1 = 12 \mu\text{F}$, $C_2 = C_3 = 4 \mu\text{F}$ and $C_4 = C_5 = 2 \mu\text{F}$. The charge stored in C_3 is _____ μC .



Answer (8.00)

Sol. From circuit given,

Potential difference across C_3 is 2 V (constant)

$$\therefore Q_3 = 2 \times 4 \mu\text{C}$$

$$= 8 \mu\text{C}$$

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Peipei Pang



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