

$$v_{\theta} = \sqrt{\frac{2G \times \left(2M_{A} + \frac{7}{8}M_{A}\right)}{\frac{(15)\frac{1}{3}R}{2}}}$$

$$= v_{0} \times \sqrt{\frac{23 \times 2}{8 \times (15)\frac{1}{3}}}$$

$$\therefore \frac{v_{\theta}}{v_{A}} = \sqrt{\frac{23}{(15)\frac{1}{3}}} = \sqrt{\frac{2.30 \times 10}{(15)\frac{1}{3}}}$$

- n = 2.30
- 2. The minimum kinetic energy needed by an alpha particle to cause the nuclear reaction ½6N + ½He → ⅓H + ½9O in a laboratory frame is n (in MeV). Assume that ½6N is at rest in the laboratory frame. The masses of ½6N, ½He, ¼H and ½9O can be taken to be 16.006 u, 4.003 u, 1.008 u and 19.003 u, respectively, where 1 u = 930 MeVc⁻². The value of n is ______.

Answer (2.33)

Sol. Q =
$$(m_N + m_{He} - m_H - m_O) \times c^2$$

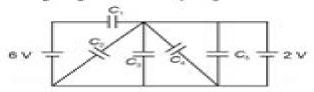
= $(16.006 + 4.003 - 1.008 - 19.003) \times 930 \text{ MeV}$
= -1.86 MeV
= $1.86 \text{ MeV energy absorbed}$.
And, $\frac{1}{2} \times \frac{m \times 4m}{5m} \times v^2 = \text{max loss in kinetic energy}$

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

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

$$= 2.325 \text{ MeV}$$

- n = 2.33
- 3. In the following circuit $C_1 = 12 \mu F$, $C_2 = C_3 = 4 \mu F$ and $C_4 = C_5 = 2 \mu F$. The charge stored in C_3 is ____ μC .



Answer (8.00)

Sol. From circuit given,

Potential difference across C₁ is 2 V (constant)

Jee Question Paper 20

L Towne

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "Jee Question Paper 20," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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