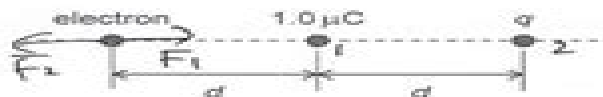


20. A positive point charge of magnitude $1.0 \mu\text{C}$ and a point charge q are separated by a distance d .



An electron is placed at a distance d from the $+1.0 \mu\text{C}$ charge. The electric force on the electron is zero.

What is q ?

- A. $-4.0 \mu\text{C}$
 B. $-2.0 \mu\text{C}$
 C. $2.0 \mu\text{C}$
 D. $4.0 \mu\text{C}$

(A)

Electric field

For $F_{\text{net}} = 0$

$$F_1 = F_2$$

$$\frac{Q_1}{4\pi\epsilon_0 r_1^2} = \frac{Q_2}{4\pi\epsilon_0 r_2^2}$$

$$\frac{Q_1}{r_1^2} = \frac{Q_2}{r_2^2}$$

$$Q_2 = \frac{r_2^2 \cdot Q_1}{r_1^2} = \frac{(2d)^2 (1\mu\text{C})}{d^2}$$

21. What is the sequence for the evolution of a main sequence star of about 2 solar masses?

- A. Red super giant \rightarrow supernova \rightarrow neutron star
 B. Red giant \rightarrow planetary nebula \rightarrow white dwarf
 C. Red giant \rightarrow supernova \rightarrow white dwarf
 D. Red super giant \rightarrow planetary nebula \rightarrow neutron star

* Scientific facts to memorise. !!

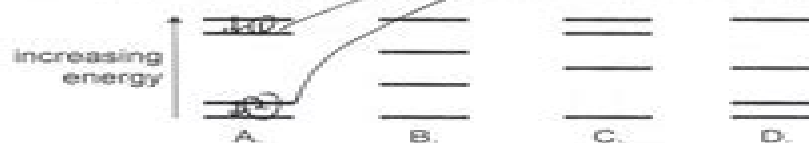
(B)

$= 4 \times 1\mu\text{C}$
 $= 4\mu\text{C}$
 As it is force of repulsion.
 $Q_2 = -4\mu\text{C}$

22. The diagram shows the emission spectrum of an atom.



Which of the following atomic energy level models can produce this spectrum?



(A)

$\Delta E = \frac{hc}{\lambda_p}$
 $\therefore \Delta E$ are small for 2 lines

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Jessica J Manson



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