

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 $F_{net} = 0$

$$F_1 = F_2$$

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

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

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

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

(B)

(B)

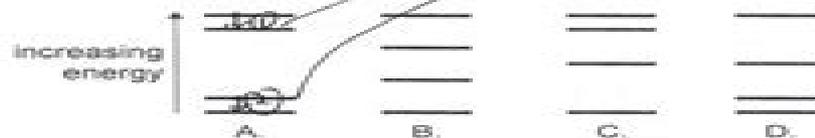
$= 4 \times 1 \mu\text{C}$
 $= 4 \mu\text{C}$
 As it is force of repulsion.
 $Q_2 = -4 \mu\text{C}$

* Scientific facts to memorise. !!

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



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



(A)

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

Ib Physics Sl Past Papers 23

Michael Hoelscher



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