

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)

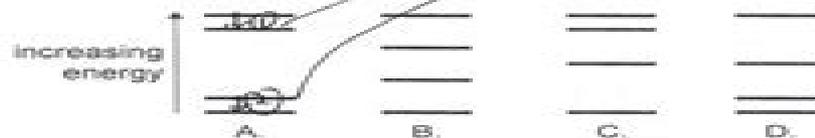
$= 4 \times 1 \mu\text{C}$
 $= 4 \mu\text{C}$
 As it is force of repulsion.
 $Q_2 = -4 \mu\text{C}$

* 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

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1. Understanding the eBook Ib Physics Past Papers
 - The Rise of Digital Reading Ib Physics Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Physics Past Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ib Physics Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Physics Past Papers
 - Personalized Recommendations
 - Ib Physics Past Papers User Reviews and Ratings
 - Ib Physics Past Papers and Bestseller Lists
5. Accessing Ib Physics Past Papers Free and Paid eBooks
 - Ib Physics Past Papers Public Domain eBooks
 - Ib Physics Past Papers eBook Subscription Services
 - Ib Physics Past Papers Budget-Friendly Options

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 - Ib Physics Past Papers Compatibility with Devices
 - Ib Physics Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Physics Past Papers
 - Highlighting and Note-Taking Ib Physics Past Papers
 - Interactive Elements Ib Physics Past Papers
8. Staying Engaged with Ib Physics Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Physics Past Papers
9. Balancing eBooks and Physical Books Ib Physics Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Physics Past Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ib Physics Past Papers
 - Setting Reading Goals Ib Physics Past Papers
 - Carving Out Dedicated Reading Time
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 - Fact-Checking eBook Content of Ib Physics Past Papers
 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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