

# Physics

(www.tiwariacademy.in)  
(Chapter 12)(Atoms)  
(Class 12)  
Exercises

## Question 12.1:

Choose the correct alternative from the clues given at the end of the each statement:

- (a) The size of the atom in Thomson's model is \_\_\_\_\_ the atomic size in Rutherford's model. (much greater than/no different from/much less than.)  
(b) In the ground state of \_\_\_\_\_ electrons are in stable equilibrium, while in \_\_\_\_\_ electrons always experience a net force. [Thomson's model/ Rutherford's model.]  
(c) A classical atom based on \_\_\_\_\_ is doomed to collapse. [Thomson's model/ Rutherford's model.]  
(d) An atom has a nearly continuous mass distribution in a \_\_\_\_\_ but has a highly non-uniform mass distribution in \_\_\_\_\_. [Thomson's model/ Rutherford's model.]  
(e) The positively charged part of the atom possesses most of the mass in \_\_\_\_\_. [Rutherford's model/both the models.]

## Answer 12.1:

- (a) The sizes of the atoms taken in Thomson's model and Rutherford's model have the same order of magnitude.  
(b) In the ground state of Thomson's model, the electrons are in stable equilibrium. However, in Rutherford's model, the electrons always experience a net force.  
(c) A classical atom based on Rutherford's model is doomed to collapse.  
(d) An atom has a nearly continuous mass distribution in Thomson's model, but has a highly non-uniform mass distribution in Rutherford's model.  
(e) The positively charged part of the atom possesses most of the mass in both the models.

## Question 12.2:

Suppose you are given a chance to repeat the alpha-particle scattering experiment using a thin sheet of solid hydrogen in place of the gold foil. (Hydrogen is a solid at temperatures below 14 K.) What results do you expect?

## Answer 12.2:

In the alpha-particle scattering experiment, if a thin sheet of solid hydrogen is used in place of a gold foil, then the scattering angle would not be large enough. This is because the mass of hydrogen ( $1.67 \times 10^{-27}$  kg) is less than the mass of incident  $\alpha$ -particles ( $6.64 \times 10^{-27}$  kg). Thus, the mass of the scattering particle is more than the target nucleus (hydrogen). As a result, the  $\alpha$ -particles would not bounce back if solid hydrogen is used in the  $\alpha$ -particle scattering experiment.

## Question 12.3:

What is the shortest wavelength present in the Paschen series of spectral lines?

## Answer 12.3:

Rydberg's formula is given as:

$$\frac{hc}{\lambda} = 21.76 \times 10^{-19} \left[ \frac{1}{n_1^2} - \frac{1}{n_2^2} \right]$$

Where,

$h$  = Planck's constant =  $6.6 \times 10^{-34}$  Js and  $c$  = Speed of light =  $3 \times 10^8$  m/s. ( $n_1$  and  $n_2$  are integers)

The shortest wavelength present in the Paschen series of the spectral lines is given for values  $n_1 = 3$  and  $n_2 = \infty$ .

$$\frac{hc}{\lambda} = 21.76 \times 10^{-19} \left[ \frac{1}{(3)^2} - \frac{1}{(\infty)^2} \right]$$

$$\begin{aligned} \lambda &= \frac{6.6 \times 10^{-34} \times 3 \times 10^8 \times 9}{21.76 \times 10^{-19}} \\ &= 8.189 \times 10^{-7} \text{ m} \\ &= 818.9 \text{ nm} \end{aligned}$$

## Question 12.4:

A difference of 2.3 eV separates two energy levels in an atom. What is the frequency of radiation emitted when the atom makes a transition from the upper level to the lower level?

# Physics Chapter 5 Review Answers

**Joseph A. Alvarez**



## Physics Chapter 5 Review Answers:

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*The Pharmaceutical Era* ,1905

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Engineering News ,1906

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The Effect of Explicit Problem Solving Instruction on Students' Conceptual Understanding of Newton's Laws Douglas Wayne Huffman,1994

Textbook of Clinical Echocardiography Catherine M. Otto,2004 The new edition of Dr Otto s benchmark text of echocardiography is a must for everyone learning echo for the first time or re learning the essential concepts Dr Otto s writing style engages the reader and makes difficult concepts easy to understand New to this edition is a discussion of new echo techniques including contrast and 3D and how they fit into the echo practice All echo images are new to this edition and are complemented by new full colour drawings of heart structures and physical orientation Each chapter includes a practical outline called The Echo Exam ideal for understanding the use of echo and how to understand the outcomes Clear and concise coverage of the basics of image acquisition give the reader the how and why of echocardiography All new four color line drawings and digital images Comprehensive discussion of key and new echo modalities including contrast Doppler three dimensional and transesophageal echocardiography TEE The Echo Exam a one page summary of how to do it the necessary calculations diagnosis and examples is included at the end of every chapter and at the end of the book as an appendix A must for anyone learning echo for the first time or re learning the essential concepts

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