

Name: KEY

Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Radioactivity Worksheet

1. State the number of neutrons and protons in each of the following nuclei:

a.  ${}_1^1H$  : Neutrons = 1   protons = 1  
 b.  ${}_6^{12}C$  : neutrons = 6   protons = 6  
 c.  $_{26}^{56}Fe$  : neutrons = 30   protons = 26  
 d.  $_{79}^{192}Au$  : neutrons = 113   protons = 79

2. The three types of radioactive emissions are called alpha ( $\alpha$ ), beta ( $\beta$ ) and gamma ( $\gamma$ ) radiation. Complete the table below with the correct information about each type.

	Charge	Atomic Symbol	Can Be Stopped By
Alpha	+2	${}_2^4He$	paper
Beta	-1	${}_1^0e$	aluminum
Gamma	0	${}_0^0\gamma$	lead

3. Which of the three radioactive emissions ( $\alpha$ ,  $\beta$ ,  $\gamma$ ) best fit the following statements? Write the correct symbol/s on the lines.

a) These emissions are charged.  $\alpha$ ,  $\beta$   
 b) This emission is the most massive (heaviest).  $\alpha$   
 c) This emission is the most charged.  $\alpha$   
 d) This emission is most dangerous outside of the body.  $\gamma$   
 e) This emission is stopped by thin paper or a few centimeters of air.  $\alpha$   
 f) This emission can travel through paper, but is stopped by aluminum.  $\beta$   
 g) This emission can travel through fairly thick lead.  $\gamma$

4. Which type of radiation – alpha, beta, or gamma:

a. Results in the greatest change in atomic number? Why?

Alpha - changes by 2

b. Results in the least change in atomic number? Why?

Gamma - no change in atomic number

## Worksheet 4 Detection Of Radioactivity Answers

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## **Worksheet 4 Detection Of Radioactivity Answers:**

*Workbook for Radiologic Science for Technologists - E-Book* Elizabeth Shields, Stewart C. Bushong, 2012-06-22 Sharpen your radiographic skills and reinforce what you've learned in Bushong's Radiologic Science for Technologists 10th Edition. Corresponding to the chapters in the textbook, this workbook helps you learn by doing worksheets, crossword puzzles, and math exercises. A Math Tutor section helps you brush up on your math skills. You'll gain the scientific understanding and practical experience necessary to become an informed, confident radiographer. In-depth coverage lets you review and apply all of the major concepts from the text. Over 100 worksheets make it easy to review specific topics and are numbered according to textbook chapter. Math Tutor exercises provide a great refresher for beginning students or extra practice with decimal and fractional timers, fraction decimal conversion, solving for desired mAs, and technique adjustments. Penguin boxes summarize relevant information from the textbook, making it easier to review major concepts and do worksheet exercises. New worksheets on digital radiographic technique and the digital image display provide an excellent review of the new textbook chapters. Closer correlation to the textbook simplifies your review.

### **Radiologic Science for Technologists**

Stewart C. Bushong, Elizabeth Shields, MHA, RT(R), Stewart C. Bushong, ScD, FAAPM, FACR, 2004. This popular workbook/laboratory manual is intended to help students review information and sharpen skills that are essential to becoming a competent radiographer. The workbook is divided into worksheets that complement the material covered in the text. Suitable for homework or in-class assignments, the workbook contains worksheets, crossword puzzles, laboratory experiments, a math tutor section, and helpful appendices. Worksheets correspond with the five sections of the main book, covering radiologic physics, the x-ray beam, the radiographic image, special x-ray imaging, and radiation protection. Over 100 worksheets focus on particular topics from specific chapters in the text. Bushbits provide a concise summary of information from the textbook that is relevant to the exercise questions. Math Tutor worksheets on decimal and fractional timers, fraction decimal conversion, solving for desired mAs, and technique adjustments provide an excellent refresher or additional practice with relevant math concepts. Laboratory Experiments provide the framework for experiments in the lab setting, designed to aid in understanding via hands-on experience.

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**Study Guide for Medical-Surgical Nursing** Susan A. Sandstrom, Sharon L. Lewis, Margaret McLean Heitkemper, RN Ph.D., Shannon Ruff Dirksen, 2013-12-02 Prepare for success in the classroom Corresponding to the chapters in the 9th edition of Lewis market leading Medical Surgical Nursing this study guide offers a complete review of content and a wide range of activities to help you understand key nursing concepts Alternate item format questions reflect the most current NCLEX test plan To make studying easier answers for all exercises are included in the back of the book A wide variety of clinically relevant exercises and activities includes NCLEX examination style multiple choice questions prioritization and delegation questions case studies fill in the blank questions anatomy and physiology review critical thinking activities and more Answers to all questions are included in the back of the book giving you immediate feedback as you study Additional alternate item format questions incorporating prioritization and delegation are included to better prepare you for the most current NCLEX exam Attractive two color design ties the study guide to the textbook

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