

13 These calculations have used $L = 6.02 \times 10^{23}$

(a) 7.22×10^{22} (b) 3.01×10^{23}

(c) 1.20×10^{23}

14 0.53 mol H

15 0.250 mol

16 (a) 262.87 g mol⁻¹ (b) 176.14 g mol⁻¹

(c) 164.10 g mol⁻¹ (d) 248.22 g mol⁻¹

17 189.1 g

18 1.5 mol

19 0.0074 mol Cl⁻

20 1.83×10^{23} C atoms

21 171 g (integer value because no calculator)

22 10.0 g H₂O

23 2.0 mol N₂ > 3.0 mol NH₃ > 25.0 mol H₂ > 1.0 mol N₂H₄

24 (a) CH (b) CH₂O

(c) C₁₀H₁₂O₁₁ (d) C₃H₆

(e) C₃H₆ (f) CH₂O

25 Na₂S₂O₅

26 CoSO₄·7H₂O

27 C₁₁H₁₆N

28 NH₃

29 6.94 L

30 CdS

31 empirical formula CH; molecular formula C₇H₈

32 empirical formula H₂PO₃; molecular formula H₄P₂O₆

33 C₁₀H₁₆N₂P₂O₁₁ for both empirical and molecular formulas

34 C₂H₄O

35 Let y = mass of chalk in grams.

moles of chalk used = $\frac{\text{mass used}}{M_r(\text{CaCO}_3)} \times$

$y \frac{\text{g}}{100.09 \text{ g mol}^{-1}}$

This is the same as the number of moles of carbon atoms used.

Therefore the number of carbon atoms used =

moles of chalk \times (6.02 \times 10²³ mol⁻¹) =

$\frac{6.02 \times 10^{23} y}{100.09}$

36 (a) 2.50 mol

(b) 5.63 mol

(c) 665.5 g

37 (a) $2\text{C}_2\text{H}_6 + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$

(b) 1.59 g

38 4.355 kg

39 (a) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$

(b) 92.8%

(c) CaCO₃ is the only source of CO₂; all the CaCO₃ undergoes complete decomposition; all CO₂ released is captured; heating does not cause any change in the mass of the other minerals present.

40 (a) 65.2 g

(b) 1.3 g H₂

41 5.23 g C₂H₅Cl₂

42 253.2 g theoretical CaSO₄; 77.9%

43 3.16 g ester

44 107 g of C₆H₆ needed

45 (a) 2.40 mol

(b) 0.0110 mol

(c) 44 mol

46 (a) 35.65 dm³

(b) 5.7 dm³

47 0.652 dm³

48 0.138 mol Br₂ and 0.156 mol Cl₂, so more molecules of Cl₂

49 0.113 dm³

50 0.28 dm³

51 90 kPa

52 16 °C

53 3.0 dm³

54 2.8 dm³

Pearson Chemistry Workbook Answers Section 14

Ying-Ying Zheng



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Chemistry: The Central Science Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Darius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation *The Publisher*, 1901 *The Monthly Literary Advertiser*, 1838

Chemistry: The Key to our Sustainable Future Minu Gupta Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2013-11-08 Chemistry The Key to our Sustainable Future is a collection of selected contributed papers by participants of the International Conference on Pure and Applied Chemistry ICPAC 2012 on the theme of Chemistry The Key for our Future held in Mauritius in July 2012 In light of the significant contribution of chemistry to benefit of mankind this book is a collection of recent results generated from research in chemistry and interdisciplinary areas It covers topics ranging from nanotechnology natural product chemistry to analytical and environmental chemistry Chemistry The Key to our Sustainable Future is written for graduates postgraduates researchers in industry and academia who have an interest in the fields ranging from fundamental to applied chemistry *Decennial Index to Chemical Abstracts*, 1926

British Books, 1839 **The Publishers' Circular and Booksellers' Record**, 1920 *Publishers' Weekly*, 1904

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has an introduction to set the scene for the questions to come However not all possible information is provided within these Introductions so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers The questions have been used in end of semester examinations for undergraduate anatomy and physiology courses and as such reflect the focus of these particular courses and are pitched at this level to challenge students that are beginning their training in anatomy and physiology The question and answer combinations are intended for use by teachers to select questions for their next examinations and by students when studying for an upcoming test Students enrolled in the courses for which these questions were written include nursing midwifery paramedic physiotherapy occupational therapy nutrition and dietetics health sciences exercise science and students taking an anatomy and physiology course as an elective The Electrical Review ,1900 *Rodak's Hematology - E-Book* Elaine M. Keohane,Michelle Montgomery Preston,Kamran M. Mirza,Jeanine M. Walenga,2024-04-15 Selected for 2025 Doody's Core Titles in Laboratory Medicine Make sure you are thoroughly prepared to work in a clinical laboratory Rodak's Hematology Clinical Principles and Applications 7th Edition uses hundreds of full color photomicrographs to help you understand the essentials of hematology and hemostasis This new edition details the parts and functions of the cell shows how to accurately identify cells covers normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origins and simplifies hemostasis and thrombosis concepts and disorders Easy to follow and understand this book also covers key topics including working in the hematology and hemostasis laboratory complementary testing areas such as flow cytometry cytogenetics and molecular diagnostics and laboratory testing of blood cells and body fluid cells Content throughout the text reflects the latest information on hematology and hemostasis Hematology and hemostasis instruments are described compared and contrasted More than 700 full color illustrations and photomicrographs make it easier to visualize hematology concepts and show what you'll encounter in the laboratory Instructions for laboratory procedures include detailed figures and sources of errors Case studies in each chapter provide opportunities to apply hematology concepts to real life scenarios Hematology and hemostasis reference intervals are listed on the inside front and back covers for quick reference Bulleted chapter summaries make it easy for you to review important points Learning objectives begin each chapter and indicate what you should achieve with review questions appearing at the end Appendices provide easy access to a list of key formulas abbreviations and a detailed glossary to complement learning New to this edition NEW Chapter on Patient Safety in Hematology and Hemostasis NEW Section on hematology and hemostasis in transgender populations UPDATED White blood cell chapters are current with the 2022 World Health Organization WHO Classification of Haematolymphoid Tumours NEW Changes in laboratory results associated with COVID 19 and other viral infections NEW Content and figures on plasma transport cell communication and signal transduction NEW Coverage of CRISPR technology for treatment of hemoglobinopathies and thalassemia UPDATED Major revision of the Automated Blood Cell Analysis chapter *Introduction to Materials Science for Engineers* James F.

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