

ACS Final Exam Practice 1

The exam is 70 questions in 110 minutes. You may use the equation sheet and periodic table but no other materials

Section 1 Foundations

PQ-1. The speed of light is  $3.0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$ . What is this speed in  $\text{nm}\cdot\text{ms}^{-1}$ ?

- (A)  $3.0 \times 10^{-1} \text{ nm}\cdot\text{ms}^{-1}$       (B)  $3.0 \times 10^2 \text{ nm}\cdot\text{ms}^{-1}$       (C)  $3.0 \times 10^{14} \text{ nm}\cdot\text{ms}^{-1}$       (D)  $3.0 \times 10^{23} \text{ nm}\cdot\text{ms}^{-1}$

PQ-4. What is the correctly reported mass of water based on the data in the table?

|                          |           |
|--------------------------|-----------|
| Mass of beaker and water | 29.62 g   |
| Mass of beaker only      | 28.3220 g |

- (A) 1.3 g      (B) 1.30 g      (C) 1.298 g      (D) 1.2980 g

PQ-5. What is the name of  $\text{Ti}_2(\text{PO}_4)_3$ ?

- (A) titanium phosphate      (B) titanium(III) phosphate  
(C) titanium(IV) phosphate      (D) titanium tetrophosphate

PQ-6. The formula of strontium hexafluorosilicate is  $\text{SrSiF}_6$ . What is the formula of aluminum hexafluorosilicate?

- (A)  $\text{AlSiF}_6$       (B)  $\text{Al}_2(\text{SiF}_6)_3$       (C)  $\text{Al}_2\text{SiF}_6$       (D)  $\text{Al}_3(\text{SiF}_6)_2$

PQ-8. What is the correct name for  $\text{N}_2\text{O}_5$ ?

- (A) nitrogen(II) oxide      (B) nitrogen(V) oxide  
(C) dinitrogen oxide      (D) dinitrogen pentoxide

PQ-12. If a palladium nanoparticle has a density of  $12.0 \text{ g}\cdot\text{cm}^{-3}$ , what is the mass of a nanoparticle with a volume of  $1.84 \times 10^{-23} \text{ cm}^3$ ?

- (A)  $2.21 \times 10^{-23} \text{ g}$       (B)  $1.63 \times 10^{-20} \text{ g}$       (C)  $6.52 \times 10^{-21} \text{ g}$       (D)  $1.53 \times 10^{-22} \text{ g}$

# 70 Question Chemistry Final Exam Answers

**R Barnett**



## 70 Question Chemistry Final Exam Answers:

**Encyclopedia of Chemical Processing and Design** John J. McKetta Jr,1993-06-02 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries

**Report Upon the Survey of the University of Wisconsin** Wisconsin. State Board of Public Affairs,1914 114  
Topic-wise Quantitative Aptitude & Data Interpretation Previous Year Question Bank for IBPS/ SBI/ RRB/ RBI Bank Clerk/ PO Prelim & Main Exams (2010 - 2024) 8th Edition | 100% Solved Quant & DI PYQs Disha Experts,2024-05-02 The thoroughly revised updated 8th edition 114 Quantitative Aptitude Data Interpretation Topic wise Previous Year Solved Papers for IBPS SBI Bank PO Clerk Prelim Main Exams 2010 23 consists of past solved papers for Prelim and Main Exams of Banks IBPS PO IBPS Clerk SBI PO SBI Clerk IBPS RRB PO IBPS RRB Office Assistant RBI Assistant and IBPS SBI Specialist Officer from 2010 to 2024 The coverage of the papers has been kept RECENT 2010 to 2024 as they actually reflect the changed pattern of the Banking exams Thus the papers prior to 2010 have not been included in the book In all there are 114 Question Papers having 4700 Questions from 2010 to 2024 which have been divided into 15 Topics with detailed solutions Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the bank examinations In the end this book will make the aspirants competent enough to crack the these Entrance Examination with good score The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students *State Board Journal of America* ,1907 *Cracking the DAT (Dental Admission Test)* Princeton Review (Firm),2012 Includes perforated quick reference study sheets The Hidden Curriculum - Faculty Made Tests in Science Sheila Tobias,1997 **Quantitative Aptitude & Data Interpretation Topic-wise Solved Papers for IBPS/ SBI Bank PO/ Clerk Prelim & Main Exams (2010-20) 4th Edition** Disha Experts,2020-04-18 **5 Steps to a 5: AP Chemistry 2021** Mary Millhollon,Richard H. Langley,2020-10-02 MATCHES THE LATEST EXAM In this hybrid year let us supplement your AP classroom experience with this multi platform study guide The immensely popular 5 Steps to a 5 AP Chemistry guide has been updated for the 2020 21 school year and now contains 3 full length practice exams available both in the book and online that reflect the latest exam Up to Date Resources for COVID 19 Exam Disruption Access to a robust online platform Comprehensive overview of the AP Chemistry exam format Hundreds of practice exercises with thorough answer explanations Proven strategies specific to each section of the test A self guided study plan including flashcards games and more online **Kaplan GRE Exam 2008 Comprehensive Program** Kaplan,2007-07-03 Students who turn to Kaplan can depend on the most accurate information on the GRE test change As always Kaplans comprehensive guides combine proven score raising strategies with the latest technology to help students exceed their expectations **The American Bookseller** ,1886 **Educational**

**Measurements and the Classroom Teacher** Adam Raymond Gilliland, Riverda Harding Jordan, 1924 *Catalogue of the School Bulletin Publications ...* Charles William Bardeen, 1900 *Midland Druggist and the Pharmaceutical Review*, 1923 *Chemical Engineering and Mining Review*, 1924 **The Publishers Weekly**, 1924 Journal of the American Medical Association American Medical Association, 1908 Includes proceedings of the Association papers read at the annual sessions and list of current medical literature 5 Steps to a 5 AP Chemistry John Moore, 2003-08-22 For the more than one million students taking the AP exams each year Boxed quotes offering advice from students who have aced the exams and from AP teachers and college professors Sample tests that closely simulate real exams Review material based on the contents of the most recent tests Icons highlighting important facts vocabulary and frequently asked questions Websites and links to valuable online test resources along with author e mail addresses for students with follow up questions Authors who are either AP course instructors or exam developers **The Popular Science Monthly**, 1923 Anesthesiology Examination and Board Review 7/E Mark Dershwitz, J. Matthias Walz, 2014-02-05 The Single Best Review for the American Board of Anesthesiology Written Examinations Completely Updated to Reflect the New Exam Format Anesthesiology Examination and Board Review is the most time proven and effective way to prepare for the ABA written examinations This powerful study guide delivers 1 500 board style multiple choice questions with referenced paragraph length discussions for each answer Anesthesiology Examination and Board Review has been completely redesigned and rewritten to reflect the new exam format Like the exam this edition is divided into two parts Basic and Advanced each concluding with a practice test There is no better way for you to boost your test taking skills subject knowledge and confidence than this essential study partner FEATURES 1 500 board style questions with fully explained referenced answers New information from the American Board of Anesthesiology on changes to the certification and recertification process and requirements Complete coverage of the entire field of anesthesiology Two comprehensive practice tests that mimic the actual exams and allow you to test your skill at answering questions under simulated exam conditions Valuable test taking strategies New questions that reflect the latest research and advances **Colliery Engineer**, 1894

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Transformations Sep 5, 2017 — Nuclear Chemistry Targets: 1.I CAN Utilize appropriate scientific vocabulary to explain scientific concepts. 2.I CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay? It decreases by 2.b. ... answer the following questions.<strong>Nuclear</strong> ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208  $^{208}_{87}\text{Fr} \rightarrow$  b ...