

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 tetraphosphate

PQ-6. The formula of strontium hexafluorosilicate is SrSiF_6 . What is the formula of aluminum hexafluorosilicate?

- (A) AlSiF_6 (B) $\text{Al}_3(\text{SiF}_6)_3$ (C) Al_2SiF_6 (D) $\text{Al}_3(\text{SiF}_6)_2$

PQ-8. What is the correct name for N_2O_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) $1.53 \times 10^{-22} \text{ g}$

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JS Bruner



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curricula in different countries why they were introduced how they were developed and implemented and evaluation results Part C gives descriptions of three projects that are of smaller scale and their materials are used as interventions in other more conventional curricula There is also a contribution on some fundamental research where modules of work are written to examine how best to design context based curricula Finally Part D consist of two chapters one summarising some of the findings that came out of the chapters in the three earlier parts and the second looks at the future

NBS Minimal BASIC Test Programs: Source listings and sample output John V. Cugini,Joan S. Bowden,Mark Skall,1980 **The ETS Test Collection Catalog** Educational Testing Service. Test Collection,1993 The major source of information on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments

NBS Minimal BASIC Test Programs: Documentation John V. Cugini,1980 **NBS Minimal BASIC Test Programs** John V. Cugini,Joan S. Bowden,1980 Faculty Development for Student Achievement Ronald J. Henry,2006-04-15 This book describes a seven year project Quality in Undergraduate Education QUE that produced important changes in departments and in the teaching of individual faculty in 21 two and four year institutions across four states Rather than a blow by blow report of the project it focuses on the problems that led to the development of QUE concern about low levels of student learning in postsecondary institutions and demands by state legislatures that funds for postsecondary institutions be tied to assessment of student learning The story is told first from the organizational perspective in national and local campus meetings and then from the point of view of faculty in five chapters one for each discipline of biology chemistry English history and mathematics This description of QUE is intended as a model for administrators and faculty seeking to meet the challenges of increasingly diverse students as well as the increasingly divergent ways to earn a degree

An Analysis of the Relationship Between Selected Variables and Academic Success in Nursing Chemistry Charmaine Bienvenu Mamantov,1976 Experimental Verification of a Standard Test Procedure for Solar Collectors James E. Hill,John P. Jenkins,Dennis E. Jones,1979 Broadening Participation in STEM Zayika Wilson-Kennedy,Goldie S. Byrd,Eugene Kennedy,Henry T. Frierson,2019-02-28 This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines

Advances in Teaching Physical Chemistry Mark David Ellison,2008 This book brings together the latest perspectives and ideas on teaching modern physical chemistry It includes perspectives from experienced and well known physical chemists a thorough review of the education literature pertaining to physical chemistry a thorough review of advances in undergraduate laboratory experiments from the past decade in depth descriptions of using computers to aid student learning and innovative ideas for teaching the fundamentals of physical chemistry This book will provide valuable insight and information to all teachers of physical chemistry

Energy Measurement in the Standard Penetration Test William D. Kovacs,Lawrence A. Salomone,Felix Y. Yokel,1981 Geotechnical engineers in the United States commonly use the

Standard Penetration Test SPT in subsurface investigation for routine foundation designs It has been said that perhaps up to 80 to 90 percent of the routine foundation designs are accomplished by the use of the SPT N value Despite efforts to standardize more details of the SPT procedure variability between tests is inherent under present guidelines A field measurement system and procedure which measures the energy delivered by a drill rig system were developed and successfully used to study the factors which affect delivered energy Results are presented which indicate the energy delivered by certain drill rig systems used in engineering practice Also the transmission characteristics of certain hammer anvil systems are examined Guidance on the need to measure the actual fall height of the hammer during the Standard Penetration Test is provided based on the findings of the study *Applied Polymer Science: 21st Century* C. Craver, C. Carraher, 2000-12-19 The 75th Anniversary Celebration of the Division of Polymeric Materials Science and Engineering of the American Chemical Society in 1999 sparked this third edition of *Applied Polymer Science* with emphasis on the developments of the last few years and a serious look at the challenges and expectations of the 21st Century This book is divided into six sections each with an Associate Editor responsible for the contents with the group of Associate Editors acting as a board to interweave and interconnect various topics and to insure complete coverage These areas represent both traditional areas and emerging areas but always with coverage that is timely The areas and associated chapters represent vistas where PMSE and its members have made and are continuing to make vital contributions The authors are leaders in their fields and have graciously donated their efforts to encourage the scientists of the next 75 years to further contribute to the well being of the society in which we all live Synthesis characterization and application are three of the legs that hold up a steady table The fourth is creativity Each of the three strong legs are present in this book with creativity present as the authors were asked to look forward in predicting areas in need of work and potential applications The book begins with an introductory history chapter introducing readers to PMSE The second chapter introduces the very basic science terms and concepts critical to polymer science and technology Sections two three and four focus on application areas emphasizing emerging trends and applications Section five emphasizes the essential areas of characterization Section six contains chapters focusing of the synthesis of the materials Examination of Distance Measuring Devices Stephen Hasko, 1980 **NBS Standard Reference Materials Catalog 1981-83 Edition**, 1981 Standard X-ray Diffraction Powder Patterns Marlene C. Morris, 1981 **Standard Reference Data Publications, 1964-1980** Gertrude B. Sherwood, 1981 **Microelectronic Test Pattern NBS-4** W. Robert Thurber, Martin G. Buehler, 1978 *Voluntary Product Standard* United States. National Bureau of Standards, 1972

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