

The Test Items

- 1/ Two sinusoidal waves, each of wavelength 5 m and amplitude 10 cm, travel in opposite directions on a 20-m long stretched string that is clamped at each end. Excluding the nodes at the ends of the string, how many nodes appear in the resulting standing wave?
 (A) 3 (C) 7
 (B) 4 (D) 10
 $f = 2 \cdot 45$
- 2/ A 0.25-kg block oscillates on the end of the spring with a spring constant of 200 N/m. If the system has an energy of 6.0 J, then the maximum speed of the block is close to:
 (A) 0.17 m/s (B) 0.24 m/s (C) 4.9 m/s (D) 7.0 m/s
- 3/ A stretched string, clamped at its ends, vibrates in its fundamental frequency. To double the fundamental frequency, one can change the string tension by a factor of:
 (A) 2 (C) $\sqrt{2}$
 (B) 4 (D) $1/\sqrt{2}$
 $\omega = \frac{2\pi}{T} = 2\pi f$
- 4/ An object on the end of a spring is set into oscillation by giving it an initial velocity while it is at its equilibrium position. In the first trial the initial speed is v , and in the second it is $4v$. In the second trial:
 (A) the amplitude is half as great and the maximum acceleration is twice as great
 (B) the amplitude is twice as great and the maximum acceleration is half as great
 (C) both the amplitude and the maximum acceleration are twice as great
 (D) both the amplitude and the maximum acceleration are four times as great
 $v = X_0 \sqrt{\frac{k}{m}}$
- 5/ When a string is vibrating in a standing wave pattern the power transmitted across an antinode, compared to the power transmitted across a node, is:
 (A) more (C) the same (zero)
 (B) less (D) the same (non-zero)
- 6/ A mass-spring system is oscillating with amplitude A . The kinetic energy will equal the potential energy only when the displacement is:
 (A) zero (B) $A/4$ (C) $A/\sqrt{2}$ (D) $A/2$
- 7/ A 30-cm long string, with one end clamped and the other free to move transversely, is vibrating in its second harmonic. The wavelength of the constituent traveling waves is:
 (A) 10 cm (C) 40 cm
 (B) 30 cm (D) 60 cm
- 8/ If the length of a simple pendulum is doubled, its period will:
 (A) remain the same (C) be greater by a factor of $\sqrt{2}$
 (B) be halved (D) double
- 9/ A 40-cm long string, with one end clamped and the other free to move transversely, is vibrating in its fundamental standing wave mode. If the wave speed is 120 cm/s, the frequency is:
 (A) 2 Hz (C) 16 Hz
 (B) 8 Hz (D) 32 Hz
- 10/ The period of a simple pendulum is 1 s on Earth. When brought to a planet where g is one-tenth that on Earth, its period becomes:
 (A) 1 s (B) $\frac{1}{10}$ s (C) $1/10$ s
 $\frac{1}{10} \sqrt{10} s =$
- 11/ The speed of waves in a stretched string depends on:
 (A) the tension in the string (C) the wavelength of the waves
 (B) the amplitude of the waves (D) the acceleration due to gravity
 $v = \sqrt{\frac{T}{m}} = 2\pi f = \frac{2\pi}{T}$

June 2013 Physics Exam

Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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Cognitive and Metacognitive Problem-Solving Strategies in Post-16 Physics Ronald Mazorodze, Michael J.

Reiss, 2019-09-20 This book reports on a study on physics problem solving in real classrooms situations Problem solving plays a pivotal role in the physics curriculum at all levels However physics students performance in problem solving all too often remains limited to basic routine problems with evidence of poor performance in solving problems that go beyond equation retrieval and substitution Adopting an action research methodology the study bridges the research practical divide by explicitly teaching physics problem solving strategies through collaborative group problem solving sessions embedded within the curriculum Data were collected using external assessments and video recordings of individual and collaborative group problem solving sessions by 16 18 year olds The analysis revealed a positive shift in the students problem solving patterns both at group and individual level Students demonstrated a deliberate well planned deployment of the taught strategies The marked positive shifts in collaborative competences cognitive competences metacognitive processing and increased self efficacy are positively correlated with attainment in problem solving in physics However this shift proved to be due to different mechanisms triggered in the different students *5 Steps to a 5 AP Physics B&C, 2012-2013 Edition* Greg

Jacobs, Joshua Schulman, 2011-06-10 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That's why we've created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You'll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include A Bit About Vectors Free Body Diagrams and Equilibrium Kinematics Newton's Second Law $F_{net} = ma$ Momentum Energy Conservation Gravitation and Circular Motion Rotational Motion for Physics C Students Only Simple Harmonic Motion Thermodynamics for Physics B Students Only Fluid Mechanics for Physics B Students Only Electrostatics Circuits Magnetism Waves Optics for Physics B Students Only Atomic and Nuclear Physics for Physics B Students Only **Issues in Nuclear**

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Supercomputing Julian Martin Kunkel, Thomas Ludwig, Hans Meuer, 2014-06-03 This book constitutes the refereed proceedings of the 29th International Supercomputing Conference ISC 2014 held in Leipzig, Germany, in June 2014. The 34 revised full papers presented together were carefully reviewed and selected from 79 submissions. The papers cover the following topics: scalable applications with 50K cores; advances in algorithms; scientific libraries; programming models; architectures; performance models and analysis; automatic performance optimization; parallel I/O and energy efficiency.

Application-driven Quantum And Statistical Physics: A Short Course For Future Scientists And Engineers - Volume 3: Transitions Jean-michel Gillet, 2020-06-18 Bridging the gap between traditional books on quantum and statistical physics, this series is an ideal introductory course for students who are looking for an alternative approach to the traditional academic treatment. This pedagogical approach relies heavily on scientific or technological applications from a wide range of fields. For every new concept introduced, an application is given to connect the theoretical results to a real-life situation. Each volume features in-text exercises and detailed solutions with easy-to-understand applications. This third volume covers several basic and more advanced subjects about transitions in quantum and statistical physics. Part I describes how the quantum statistics of fermions and bosons differ and under what condition they can merge into the classical particle statistics framework seen in Volume 2. This section also describes the fundamentals of conductors, semiconductors, superconductors, superfluids and Bose-Einstein condensates. Part II introduces time-dependent transitions between quantum states. The time evolution of a simple two-level model gives the minimum background necessary to understand the principles behind lasers and their numerous applications. Time-dependent perturbation theory is also covered, as well as standard approaches to the scattering of massive particles. A semi-classical treatment of electromagnetic field-matter interaction is described with illustrations taken from a variety of processes such as phonon scattering, charge distribution or spin densities. The third and last part of the book gives a brief overview of quantum electrodynamics with applications to photon absorption or emission spectroscopies and a range of scattering regimes. There follows a short introduction to the role of multiphoton processes in quantum entanglement-based experiments.

Demythologizing Educational Reforms Arthur T. Costigan, Leslee Grey, 2014-08-21 There are dozens of myths surrounding educational reform today: maintaining the school's role in economic competitiveness, the deficiency of teachers, the benefits of increased testing and the worthiness of privatization. In this volume, the editors argue that this discussion has been co-opted to reflect the values and worldviews of special interest groups such as elites in power, politicians, corporate educational foundations and the media. Prominent educational writers tackle contemporary issues such as neoliberalism, suburban

schooling charter schools and parental involvement They expose the logic behind the talk and critically examine these problematic beliefs to uncover meaningful improvements in education which are better grounded in the social economic political and educational realities of contemporary society

Sanathana Sarathi English Volume 07 (2012 - 2021) Sri Sathya Sai Media Centre, 2022-11-12 Started in 1958 Sanathana Sarathi is a monthly magazine devoted to Sathya Truth Dharma Righteousness Shanti Peace and Prema Love the four cardinal principles of Bhagawan Baba's philosophy It is published from Prasanthi Nilayam the Abode of Highest Peace and acts as a mouthpiece of Baba's Ashram as it speaks of the important events that take place in His sacred Abode besides carrying Divine Messages conveyed through Divine Discourses of Bhagawan Sri Sathya Sai Baba The word meaning of Sanathana Sarathi is the Eternal Charioteer It signifies the presence of the Lord in every being as the atma guiding their lives like a charioteer It implies that he who places his life the body being likened to a chariot in an attitude of surrender in the hands of the Lord will be taken care of by the Lord even as a charioteer would take the occupant of his chariot safely to its destination The magazine is an instrument to disseminate spiritual knowledge for the moral physical and mental uplift of humanity without any discrimination as the subject matter discussed therein is always of common interest and of universal appeal The fifteen Vahinis streams of sacredness known as the Vahini Series comprising annotation and interpretation of the Upanishads and other scriptures Itihasas like the Ramayana the Bhagavatha and the Mahabharata and authentic explanations on Dhyana Dharma Prema etc have been serially published in this magazine as and when they emanated from the Divine pen of Bhagawan Baba This magazine is published in almost all Indian languages English and Telugu from Prasanthi Nilayam and others from respective regions Every year Sanathana Sarathi comes out with a special issue in November commemorating the Divine Birthday The English and Telugu magazines are posted on the 10th and 23rd respectively of every month from Prasanthi Nilayam This magazine has wide ever increasing circulation in India as well as abroad as the study of it brings the reader closer to the philosophy of the Avatar in simple understandable language

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Teaching Computing Henry M. Walker, 2018-04-24 Teaching can be intimidating for beginning faculty Some graduate schools and some computing faculty provide guidance and mentoring but many do not Often a new faculty member is assigned to teach a course with little guidance input or feedback Teaching Computing A Practitioner's Perspective addresses such challenges by providing a solid resource for both new and experienced computing faculty The book serves as a practical easy to use resource covering a wide range of topics in a collection of focused down to earth chapters Based on the authors extensive teaching experience and his teaching oriented columns that span 20 years and informed by computing education

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The Bear Guarding the Beehive Stephanie C. Fox, 2014-09-16 The bees are in terrible trouble They need a good lawyer one who is on their side Once upon a time there was a beautiful country called Oblivion It had everything growing in it to make its people happy and healthy raspberries almonds peaches apricots blueberries cranberries lavender thyme irises roses tulips daffodils the list seemed endless But it did end because some of the Thieves of Oblivion wanted to sell all of these wonderful things and to force Nature to produce more and more and more of them These Thieves running a corporation called BearGenics had a conflict of interest with Nature They tampered with the genetics of crop plants They never gave a thought to the fact that without honey bees none of these plants would grow The Thieves poisoned the plants and in so doing poisoned the honey bees That s what happens when you leave the bear guarding the beehive This story is a companion to The Book of Thieves which describes the Banksters of Oblivion and how they destroyed the financial security of that country

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Emerging Technologies for STEAM Education Xun Ge, Dirk Ifenthaler, J. Michael Spector, 2015-09-09 This theory to practice guide offers leading edge ideas for wide scale curriculum reform in sciences technology engineering the arts and mathematics the STEAM subjects Chapters emphasize the critical importance of current and emerging digital technologies in bringing STEM education up to speed and implementing changes to curricula at the classroom level Of particular interest are the diverse ways of integrating the liberal arts into STEM course content in mutually reshaping humanities education and scientific education This framework and its many instructive examples are geared to ensure that both educators and students can become innovative thinkers and effective problem solvers in a knowledge based society Included in the coverage Reconceptualizing a college science learning experience in the new digital era Using mobile devices to support formal informal and semi formal learning Change of attitudes self concept and team dynamics in engineering education The language arts as foundational for science technology engineering art and

mathematics Can K 12 math teachers train students to make valid logical reasoning Moving forward with STEAM education research Emerging Technologies for STEAM Education equips educators education researchers administrators and education policymakers with curricular and pedagogical strategies for making STEAM education the bedrock of accessible relevant learning in keeping with today s digital advances **Nuclear Fusion Programme: Annual Report of the Association**

Karlsruhe Institute of Technology/EURATOM ; January 2013 - December 2013 Pleli, Ingrid,2015-03-18

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Commerce, Justice, Science, and Related Agencies Appropriations for 2014 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2013 **Love, Money, and Parenting** Matthias Doepke,Fabrizio Zilibotti,2020-11-03 Doepke and Zilibotti investigate how economic forces shape how parents raise their children They show that in countries with increasing economic inequality such as the United States parents push harder to ensure their children have a path to security and success Economics has transformed the hands off parenting of the 1960s and 70s into a frantic overscheduled activity Growing inequality has also resulted in an increasing parenting gap between richer and poorer families raising the disturbing prospect of diminished social mobility and fewer opportunities for children from disadvantaged backgrounds The authors discuss how investments in early childhood development and the design of education systems factor into the parenting equation and how economics can help shape policies that will contribute to the ideal of equal opportunity for all From publisher description *Chinese Politics* Daniel

Lynch, Stanley Rosen, 2024-04-18 Written by a team of leading China specialists this updated 2nd edition of Chinese Politics explores the dynamics of state power and politics in contemporary China focusing on the Xi Jinping era Through its multi disciplinary contributions this book explores the extent to which Xi has reshaped the political economic socio cultural and demographic terrains of the PRC as well as Beijing s foreign policy The book will help readers to think productively about the trajectory of these aspects of Chinese politics and society through Xi s current term and beyond The book also highlights the potential role outside countries and non state actors might play in shaping China s trajectory as the PRC s economic rise may be stalling Through each exploration of these issues the book addresses the central question of what The Xi Jinping Difference has been and will likely continue to be in Chinese politics Key subjects covered in this new edition include Law and the political system Socialization of youth The fate of the private sector Technology and digital authoritarianism The Belt and Road Initiative Population aging Chinese Politics continues to be an essential textbook for all students of contemporary China as well as scholars interested in the dynamics of political and social change

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general information bulb solitary or clustered applanate globose to cylindric ovoid tunic purple red brown red pale brown red or yellow to pale yellow papery to thinly leathery entire leaves shorter than scape 0 5 2 cm wide terete fistulose

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stem underground bulb leaf a cluster of radical leaves emerges from the underground bulb cylindrical and fleshy having sheathy leaf bases with parallel venation inflorescence scapigerous i e the inflorescence axis peduncle arising from the

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