

HALF YEARLY EXAMINATION — 2014-15

PHYSICS

Class – XI

Time Allowed : 3 Hrs.

Maximum Marks : 70

General Instructions :

- (i) All questions are compulsory.
- (ii) There are 26 questions in total. Question Nos. 1 to 5 are very short answer type questions and carry one mark each.
- (iii) Question Nos. 6 to 10 carry two marks each, Question Nos. 11 to 22 carry three marks each, Question no. 23 carries four marks and Question Nos. 24 to 26 carry five marks each.

1. Write the dimensions of Planck Constant (h).
2. A wheel of moment of inertia 50 Kg m^2 about its own axis is revolving at a rate of 5 revolutions per second. What is its angular momentum?
3. A body is being raised to a height h from the surface of earth. What is the sign of work done by (a) applied force, (b) gravitational force?
4. What happens to coefficient of friction when weight of a body is doubled?
5. What is the angle made by vector $A = 2\hat{i} + 2\hat{j}$ with x-axis?
6. Explain why it is easier to pull a lawn roller than to push it?
7. We measure the period of oscillation of a simple pendulum. In successive measurements, the readings turn out to be 2.63s , 2.56s , 2.42s , 2.71s and 2.80s . Calculate the absolute errors and the percentage error.
8. Locate the centre of mass of a system of three particles of masses 1 Kg, 2Kg and 3Kg situated at the corners of an equilateral triangle of side b in x-y plane. The coordinates of A, B and C are $(0, 0)$, $(b, 0)$ and $\left(\frac{b}{2}, \frac{\sqrt{3}b}{2}\right)$ respectively.
9. State and explain work-energy theorem.
10. A particle of mass 1 kg moving with a velocity $\vec{V}_1 = (3\hat{i} - 2\hat{j}) \text{ m s}^{-1}$ experiences a perfectly inelastic collision with another particle of mass 2 Kg having velocity $\vec{V}_2 = (4\hat{j} - 6\hat{k}) \text{ m s}^{-1}$. Find the velocity and speed of the particle.
11. What is torque? Give its unit. Show that it is equal to the product of force and the perpendicular distance of its line of action from the axis of rotation.
12. Prove that when a particle suffers an oblique elastic collision with another particle of equal mass and initially at rest, the two particles would move in mutually perpendicular direction after collision.

2014 September Physics Question Paper

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International Science and Technology Education Ortwin Renn, Nicole Karafyllis, Andreas Hohlt, Dorothea Taube, 2015-06-24 Education in science technology engineering and mathematics STEM is crucial for taking advantage of the prospects of new scientific discoveries initiating or promoting technological changes and managing opportunities and risks associated with innovations This book explores the emerging perspectives and methodologies of STEM education and its relationship to the cultural understanding of science and technology in an international context The authors provide a unique perspective on the subject presenting materials and experiences from non European industrialized as well as industrializing countries including China Japan South Korea India Egypt Brazil and the USA The chapters offer a wide scope of interpretations and comparative reviews of STEM education by including narrative elements about cultural developments considering the influence of culture and social perceptions on technological and social change and applying innovative tools of qualitative social research The book represents a comprehensive and multidisciplinary review of the current status and future challenges facing STEM education across the world including issues such as globalization interdependencies of norms and values effects on equity and social justice as well as resilience Overall the volume provides valuable insights for a broad and comprehensive international comparison of STEM philosophies approaches and experiences **Global Developments**

in Literacy Research for Science Education Kok-Sing Tang, Kristina Danielsson, 2018-01-19 This book highlights recent developments in literacy research in science teaching and learning from countries such as Australia Brazil China Finland Germany Hong Kong New Zealand Norway Singapore Spain South Africa Sweden Taiwan and the United States It includes multiple topics and perspectives on the role of literacy in enhancing science teaching and learning such as the struggles faced by students in science literacy learning case studies and evaluations of classroom based interventions and the challenges encountered in the science classrooms It offers a critical and comprehensive investigation on numerous emerging themes in the area of literacy and science education including disciplinary literacy scientific literacy classroom discourse multimodality language and representations of science and content and language integrated learning CLIL The diversity of views and research contexts in this volume presents a useful introductory handbook for academics researchers and graduate students working in this specialized niche area With a wealth of instructional ideas and innovations it is also highly relevant for teachers and teacher educators seeking to improve science teaching and learning through the use of literacy **Bank**

Exam Pedia Bharath Seeman, 2015-02-17 In this present era of competition every competitive examination consists of 5 sections Quantitative Aptitude Reasoning General English Computer Science and General Awareness related to banking industry After teaching more than 18 000 students in 28 years we have seen a lot of students spending their time practicing aptitude and reasoning alone But the students who cleared the exam would definitely say the above method of practicing would not help because merely passing in Aptitude and Reasoning sections will not help Students should also think about the

other sections and overall cut off We know a lot of students who cleared all the sections but failed to clear the overall cut off In fact Practicing GK and English is the only way to raise the overall cut off So we have decided to dedicate this entire magazine just for General Awareness Banking awareness We sincerely believe that students who practice the next 100 pages would secure 40 marks from the Banking awareness section We thank Google Play for publishing our e magazine on their mobile platform We also thank our students who assisted to bring this magazine out

Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are

internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription *Superalloys 2024* Jonathan Cormier,Ian Edmonds,Stephane Forsik,Paraskevas Kontis,Corey O'Connell,Timothy Smith,Akane Suzuki,Sammy Tin,Jian Zhang,2024-08-20 The 15th International Symposium on Superalloys Superalloys 2024 highlights technologies for lifecycle improvement of superalloys In addition to the traditional focus areas of alloy development processing mechanical behavior coatings and environmental effects this volume includes contributions from academia supply chain and product user members of the superalloy community that highlight technologies that contribute to improving manufacturability affordability life prediction and performance of superalloys **New Light Through Old Windows: Exploring Contemporary Science Through 12 Classic Science Fiction Tales** Stephen Webb,2019-01-07 This book presents the reader with some of the earliest classic SF short stories all of them published between 1858 and 1934 featuring both well known and long forgotten writers dealing for the first time with topics to which science had some answers only at much later stages This includes aspects of alien life forms transmogrification pandemics life on Mars android robots big data matter transmission and impact events to name but a few The short stories are reprinted in full alongside extensive commentaries which also examine some of the latest scientific thinking surrounding the story s main theme and provide the reader with suggestions for further reading 150 technical questions and answers for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 220 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *The Book of What If...?* Matt Murrie,Andrew R McHugh,2016-04-19 From the creators of the What If Conference comes a quirky book that encourages kids to explore and engage with the world around them by asking more than eighty wild absurd and thought provoking questions What if a book didn t just tell you how to think or what to know but rather encouraged you to think for yourself What if there was a book that focused on asking questions instead of just answering them The Book of What If does just that What if you lived on a floating city What if politicians were kids What if broccoli tasted like chocolate What if you could explore outer space By asking these fun open ended questions this book fosters greater critical thinking skills and gives kids a space to interact by breaking out a notebook to draw or write out their personal reactions or engage in entertaining exercises with family and friends Plus sidebars deepen the investigation with peer to peer insights historical and current

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100 technical questions and answers for job interview Offshore Drilling Rigs Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry 100 technical questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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