

# CBSE Class 11 Physics Sample Paper Set 2

Time: 3 Hrs

Maximum Marks: 70

### General Instructions:

- All questions are compulsory.
- There are 30 questions in total. Questions 1 to 8 carry one mark each, questions 9 to 18 carry two marks each, questions 19 to 27 carry three marks each and questions 28 to 30 carry five marks each.
- There is no overall choice. However, an internal choice has been provided in one question of two marks, one question of three marks and all three questions of five marks each. You have to attempt only one of the given choices in such questions.
- Use of calculator is not permitted.
- You may use the following physical constants wherever necessary.

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$c = 3 \times 10^8 \text{ ms}^{-1}$$

$$h = 6.6 \times 10^{-34} \text{ JS}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ NA}^{-2}$$

$$k_B = 1.38 \times 10^{-23} \text{ JK}^{-1}$$

$$N_A = 6.023 \times 10^{23} / \text{mole}$$

$$m_e = 9.1 \times 10^{-31} \text{ kg}$$

Q1. Give dimensions of (i) rotational Kinetic energy (ii) strain.

1

Q2. If the force shown on the block is action, what is its reaction?



1

Q3. Mention two advantages of 'I' shape of iron beams used in building construction.

1

Q4. The graph below shows load extension curve for two wires A and B of the same material and of same length.

# 2014 June Paper 1 Physics Grade 11

**Len Unsworth**



## 2014 June Paper 1 Physics Grade 11:

**Rare Earth Frontiers** Julie M. Klinger, 2018-01-15 *Rare Earth Frontiers* is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation

[The Politics of Green Transformations](#) Ian Scoones, Melissa Leach, Peter Newell, 2015-01-09 Multiple green transformations are required if humanity is to live sustainably on planet Earth Recalling past transformations this book examines what makes the current challenge different and especially urgent It examines how green transformations must take place in the context of the particular moments of capitalist development and in relation to particular alliances The role of the state is emphasised both in terms of the type of incentives required to make green transformations politically feasible and the way states must take a developmental role in financing innovation and technology for green transformations The book also highlights the role of citizens as innovators entrepreneurs green consumers and members of social movements Green transformations must be both top down involving elite alliances between states and business but also bottom up pushed by grassroots innovators and entrepreneurs and part of wider mobilisations among civil society The chapters in the book draw on international examples to emphasise how contexts matter in shaping pathways to sustainability Written by experts in the field this book will be of great interest to researchers and students in environmental studies international relations political science development studies geography and anthropology as well as policymakers and practitioners concerned with sustainability

*Creating Stellar Lessons with Digital Tools* Kenneth J. Luterbach, 2022-05-12 *Creating Stellar Lessons with Digital Tools* prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service and in service teachers with seven paths to

creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches

*Bituminous Mixtures and Pavements VI* A. Nikolaidis, 2015-07-28 *Bituminous Mixtures and Pavements* contains 113 accepted papers from the 6th International Conference Bituminous Mixtures and Pavements 6th ICONFBMP Thessaloniki Greece 10-12 June 2015 The 6th ICONFBMP is organized every four years by the Highway Engineering Laboratory of the Aristotle University of Thessaloniki Greece in conjunction with

**Journal of the Physical Society of Japan**, 2014

**Impacts of Global Warming on Ecology and Meteorology and the Related Physical Mechanisms, Evaluation and Prediction** Gui-Quan Sun, Yongping Wu, Bai-Lian Li, Yipeng Guo, 2022-12-05

**Safety and Reliability of Complex Engineered Systems** Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03 *Safety and Reliability of Complex Engineered Systems* contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7-10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas

**Learning from Animations in Science Education** Len Unsworth, 2020-11-10 This book examines educational semiotics and the representation of knowledge in school science It discusses the strategic integration of animation in science education It explores how learning through the creation of science animations takes place as well as how animation can be used in assessing student s science learning Science education animations are ubiquitous in a variety of different online sites including perhaps the most popularly accessed YouTube site and are also routinely included as digital augmentations to science textbooks They are popular with students and teachers and are a prominent feature of contemporary science teaching The proliferation of various kinds of science animations and the ready accessibility of sophisticated resources for creating them have emphasized the importance of research into various areas the nature of the semiotic construction of knowledge in the animation design the development of critical interpretation of available animations the strategic selection and use of animations to optimize student learning student creation of science animations and using animation in assessing student science learning This book brings together new developments in these research agendas to further multidisciplinary perspectives on research to enhance the design and pedagogic use of animation in school science education Chapter 1 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

*Australian Education Index*, 1980

**Handbook of Climate Change Mitigation and Adaptation** Maximilian Lackner, Baharak Sajjadi, Wei-Yin Chen, 2025-09-26 Now in its 4th extended edition this completely revised and significantly expanded handbook addresses important new research findings and the global need for action related to climate change in its two most relevant aspects mitigation and adaptation There is a growing consensus that anthropogenic activities have been driving global climate change and the consequence will be catastrophic for civilization Reducing the 37.1 billion

metric tons of CO<sub>2</sub> produced annually 2017 global emissions along with other greenhouse gases particularly methane has become a leading grand challenge and the pursuit of sustainable energy environments and economies is a complex issue affecting the daily life of every citizen In this 4th edition readers will find new chapters covering the causes and impacts of global warming the climate change impacts on health biodiversity and the economy and emerging technologies for climate change mitigation Particular attention is given to topics such as wildfire threats ocean acidification coral bleaching sea level rise and permafrost thaw The latest research on sustainable aviation fuels carbon mineralization and smart cities is also covered in this new edition as well as topics like sustainable building design climate resistant building materials and sustainable agriculture The Handbook of Climate Change Mitigation and Adaptation collates information in this multi disciplinary area providing readers with a comprehensive overview of the scientific background and current and emerging technologies Intended for an interdisciplinary global audience of researchers and decision makers at universities and in industry it covers climate change models established mature and promising future technologies and ideas the impact of climate change strategies for dealing with global warming the related political frameworks and climate education

*Cracking the code* UNESCO,2017-09-04 This report aims to crack the code by deciphering the factors that hinder and facilitate girls and women s participation achievement and continuation in science technology engineering and mathematics STEM education and in particular what the education sector can do to promote girls and women s interest in and engagement with STEM education and ultimately STEM careers **Security Owner's Stock Guide** Standard and Poor's Corporation,1962 *The Commercial and Financial Chronicle* ,1962 **Government Reports Index** ,1972 *Canadian Journal of Physics* ,2014 **Nuclear Science Abstracts** ,1964 **The Church Times** ,1904 [The College Handbook](#) College Entrance Examination Board,1985 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools [GEO Year Book](#) ,2006 Overview of major global and regional environmental issues and development that shaped policy decisions and actions during the course of the year Emerging challenges new findings presenting scientific progress made in the year that may assist society in recognizing and better understanding emerging environmental issues and help decision makers in designing adequate responses GEO indicators highlighting some of the key global and regional environmental issues and trends that have been identified in GEO reports [Government Reports Annual Index](#) ,1983

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