

GRADE 11 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

SECTION A

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER in your answer book.

- 1.1 An example of a vector quantity:
- velocity
 - displacement
 - speed
 - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
 - applied force
 - gravity
 - normal force
- 1.3 Two forces F_1 and F_2 have a net force of 120N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of F_1 and F_2 will be:
- 70N and 50N
 - 120N and 0N
 - 60N and 60N
 - 80N and 40N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 5V
 - 7V
 - 2V
 - 3V
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 2Ω:
- 10Ω
 - 4,67Ω
 - 5Ω
 - 6Ω
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
 - frictional force is more than 200N
 - frictional force is less than 200N
 - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole P. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point X?

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	Up and down inside the coil	North
C	into the coil	South
D	Up and down inside the coil	South

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AN Whitehead



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The Digest Information and Education Division,1943 **Japanese Journal of Applied Physics** ,1993 **Scientific and Technical Aerospace Reports** ,1994 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1955 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index **Nuclear Science Abstracts** ,1971-05 *Guide to Annual Subject Index for Technical Publications Announcements, Apr.-Dec. 1962* United States. National Aeronautics and Space Administration,1962 No Truth Except in the Details A.J. Kox,D.M. Siegel,1995-06-30 Beginning with a couple of essays dealing with the experimental and mathematical foundations of physics in the work of Henry Cavendish and Joseph Fourier the volume goes on to consider the broad areas of investigation that constituted the central foci of the development of the physics discipline in the nineteenth century electricity and magnetism including especially the work of Michael Faraday William Thomson and James Clerk Maxwell and thermodynamics and matter theory including the theoretical work and legacy of Josiah Willard Gibbs some experimental work relating to thermodynamics and kinetic theory of Heinrich Hertz and the work of Felix Seyler Hoppe on hemoglobin in the neighboring field of biophysics biochemistry Moving on to the beginning of the twentieth century a set of three articles on Albert Einstein deal with his early career and various influences on his work Finally a set of historiographical issues important for the history of physics are discussed and the chronological conclusion of the volume is an article on the Solvay Conference of 1933 For physicists interested in the history of their discipline historians and philosophers of science and graduate students in these and related disciplines Catalogue of the Publications and Importations of the Macmillan Co. 1907-08, Aug. 1, 1907 Macmillan Company,1907 **Reader's Guide to Periodical Literature Supplement** ,1921 These vols contain the same material as the early vols of Social sciences humanities index

Bulletin ,1944 Redefining Geek Cassidy Puckett,2022-04-20 A surprising and deeply researched look at how everyone can develop tech fluency by focusing on five easily developed learning habits Picture a typical computer geek Likely white male and someone you d say has a natural instinct for technology Yet after six years teaching technology classes to first generation low income middle school students in Oakland California Cassidy Puckett has seen firsthand that being good with technology is not something people are born with it s something they learn In *Redefining Geek* she overturns the stereotypes around the digitally savvy and identifies the habits that can help everyone cultivate their inner geek Drawing on observations and interviews with a diverse group of students around the country Puckett zeroes in on five technology learning habits that enable tech savvy teens to learn new technologies a willingness to try and fail management of frustration

and boredom use of models and the abilities to use design logic and identify efficiencies In *Redefining Geek* she shows how to measure and build these habits and she demonstrates how many teens historically marginalized in STEM are already using these habits and would benefit from recognition for their talent access to further learning opportunities and support in career pathways She argues that if we can develop recognize and reward these technological learning habits in all kids especially girls and historically marginalized racial and ethnic groups we can address many educational inequities and disparities in STEM Revealing how being good with technology is not about natural ability but habit and persistence *Redefining Geek* speaks to the ongoing conversation on equity in technology education and argues for a more inclusive technology learning experience for all students Report Upon State Education in Great Britain, France, Switzerland, Italy, Germany, Belgium, and the United States of America Richard Laishley, 1886 **Science News-letter** ,1963 **Biennial Report of the Superintendent of Public Instruction of the State of Washington** Washington (State). Superintendent of Public Instruction, 1901 Title List of Documents Made Publicly Available ,1985 **Investigating Light and Shadow with Young Children (Ages 3-8)** Beth Dykstra Van Meeteren, 2022-06-17 Children are intrigued by switches that power a light source and by items that reflect light and sparkle and they take notice of personal shadows cast on the playground An understanding of light and shadow is crucial to many STEM fields including astronomy biology engineering architecture and more This book shows teachers how to engage children ages 3 8 with light and shadow in a playful way building an early foundation for the later more complex study of this phenomena and ultimately for children s interest in professions within the STEM fields The text offers guidance for arranging the physical environment of classrooms integrating literacy learning and investigations and building partnerships with administrators Each volume in the *STEM for Our Youngest Learners Series* includes examples of educators and children engaging in inquiry learning guidance for selecting materials and arranging the learning environment modifications and accommodations for diverse learners support for establishing adult learning communities and more

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