

PHYSICS GRADE 10

CHAPTER ONE LINEAR MOTION

Introduction:

Study of motion is divided into two:

1. Kinematics
2. Dynamics

In kinematics forces causing motion are disregarded while dynamics deals with motion of objects and the forces causing them.

A. Displacement

Distance covered by a body in a specified direction is called displacement. It is denoted by letter 's' and has both magnitude and direction. Distance is the movement from one point to another. The SI unit for displacement is the metre (m).

B. Speed

This is the distance covered per unit time.

Speed = distance covered/ time taken. (Distance is a scalar quantity since it has magnitude only. The SI unit for speed is metres per second (m/s or ms⁻¹).

Average speed = total distance covered/total time taken

Other units for speed used are km/h.

(Examples)

1. A body covers a distance of 20m in 4 seconds, it rests for 10 seconds and finally covers a distance of 50m in 10 seconds. Calculate the average speed.

Solution

Total distance covered = 20 + 50 = 70m

Total time taken = 4 + 10 + 10 = 24 seconds

Therefore average speed = 70/24 = 2.9m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 100 km/h in 20 seconds.

Solution

Distance covered = speed × time

$$= 100 \times \frac{20}{3600} \text{ (convert km/h to m/s)}$$

$$= 50 \times 20$$

$$= 1000 \text{ m}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2.000 km?

Solution

Speed: 100 km/h = $100 \times \frac{1000}{3600} \text{ m/s} = 27.78 \text{ m/s}$

Time = distance/speed

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

III. Velocity

This is the change of displacement per unit time. It is a vector quantity.

Velocity = change in displacement/total time taken

The SI unit for velocity is m/s

(Examples)

Physical Science Paper1 Scope

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Physical Science Paper1 Scope:

UPTET Teacher Selection Paper-1 for Class 1 to 5 2020 Arihant Experts, Teaching is one of the oldest and most respected profession it molds the fragile minds into a strong independent decision makers UPTET is a state level Test that is conducted by UPBEB Uttar Pradesh Basic Education Board for the requirement of Primary and Upper Primary Level Teachers in various schools of Uttar Pradesh UPTET exam is conducts two phases Phase 1 For Primary Teachers and Phase 2 For Upper Primary Teachers The eligibility criteria for both Phases are different The present edition of UPTET Paper 1 Teacher Selection for Class I V gives the best study material to the aspirants who are willing to pursue teaching as a profession The book is divided 5 Sections which are further divided into chapters and covering the complete syllabus It provides Previous Years Solved Papers 2018 2016 in the beginning of the book in order to make applicants understand the latest pattern of the examination and the answer writing tactics Answers of each question is well explained with the concepts in an easy to understand language so the candidates could grasp it easily and quickly Ample amount of questions are given in the book for thorough practice This book is an excellent guide to prepare the students for facing the upcoming UPTET Exam

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The Chemical News and Journal of Physical Science, 1912 The Scientific Letters and Papers of James Clerk Maxwell: Volume 1, 1846-1862 James Clerk Maxwell, 1990-10-26 This is a comprehensive edition of Maxwell s manuscript papers published virtually complete and largely for the first time Maxwell s work was of central importance in establishing and developing the major themes of the physics of the nineteenth century his theory of the electromagnetic field and the electromagnetic theory of light and his special place in the history of physics His fecundity of imagination and the sophistication of his examination of the foundations of physics give particular interest and importance to his writings Volume I 1846 1862 documents Maxwell s education and early scientific work and his major period of scientific innovation his first formulation of field theory the electromagnetic theory of light and the statistical theory of gases Important letters and manuscript drafts illuminate this fundamental early work and the volume includes his letters to friends and family general essays and lectures and juvenilia Chemical News and Journal of Physical Science, 1871 **Pathways to the Science Standards** Steven J. Rakow, 1998 The purposes of this guide are to demonstrate how to apply the National Science Education Standards to the real world of the middle school classroom and to serve as a tool for collaboration among principals state and local administrators parents and school board members Different sections focus on science teaching standards professional development standards assessment standards content standards program standards and system standards The unifying concepts and processes discussed in the content standards include science as inquiry physical science life science earth and space science science and technology science in personal and social perspectives and the history and nature of science The

appendices contain an account of the relevant history of the National Science Education Standards the actual National Science Education Standards and ideas about the design of middle school science facilities DDR Success Master CTET Paper-I Class 1 to 5 2020 Arihant Experts,2020-01-02 Throughout the world teaching is looked at as one of the most respected and noble profession a person could have A great teacher not only shows the right path that a student should follow but also prepares the human resources for the further development of the nation Among various exams CTET is the most popular teaching exam in the country Central Teaching Eligibility Test CTET is a national level test conducted by CBSE twice a year to recruit the eligible candidates as teacher The exam is conducted into 2 papers Paper 1 for class 1 5 and Paper 2 for class 6 8 Any candidate who is interested to become a teacher for classes 6 to 8 then they have to appear for both the papers The new the edition of Study Guide Success Master CTET Paper I for class I V has been prepared completely on the latest exam pattern The book has been divided into 5 key sections and further divided into chapters providing the focused study material After covering theoretical part this book also concentrates on the practice part it provides Previous Years Solved Paper 2 practice sets and more than 3000 MCQs for thorough practice Ample numbers of questions have been given which are covered in a Chapterwise manner that allows candidates to understand the trend of the questions as well as the exam This book will prove to be highly useful for the CTET Paper 1 exam as it will help in achieving the good rank in the exam TABLE OF CONTENT Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha Shastra Mathematical Pedagogy Environmental Studies and Pedagogy Practice Sets 1 2 Annual Report Smithsonian Institution,1920 **Report on the Progress and Condition of the U.S. National Museum for the Year Ending June 30 ...** United States National Museum,1920 **Report of the Assistant Director and of the Curators of the U.S. National Museum** United States National Museum,1920 **Report on the Progress and Condition of the United States National Museum** United States National Museum,1920 *Generation, Compilation, Evaluation and Dissemination of Data for Science and Technology* Bertrand Dreyfus,2013-10-22 Generation Compilation Evaluation and Dissemination of Data for Science and Technology is a compilation of manuscripts presented at the four proceedings organized by the Committee on Data for Science and Technology CODATA It focuses on the functions of CODATA a data center that operates by generating compiling and evaluating data This book discusses conventional areas of CODATA activity namely the fields of physics chemistry and allied subjects the biological sciences geology geophysics geography and astronomy It includes lectures from the first two sessions giving up to date reviews on data centers particularly the use of computers in a variety of data activities The book also deals with CODATA s original areas of interest spectroscopic and thermodynamic data Information scientists interested in documentation systems will find this book indispensable *Free Will and Action Explanation* Scott Sehon,2016-04-29 Do we have free will and moral responsibility Is free will compatible with determinism

Scott Sehon argues that we can make progress on these questions by focusing on an underlying issue the nature of action explanation When a person acts or does something on purpose we explain the behavior by citing the agent s reasons The dominant view in philosophy of mind has been to construe such explanations as a species of causal explanation Part I of the book proposes and defends a non causal account of action and agency according to which reason explanation of human behavior is irreducibly teleological rather than causal Part II applies the teleological account of action to free will and responsibility arguing that the free actions the ones for which we are directly responsible are the goal directed actions the actions that are teleologically explicable in terms of our reasons It is then argued that this non causal account of action undermines the appeal of incompatibilist arguments arguments attempting to show that free will is not compatible with determinism Beyond this Sehon argues that the non causal compatibilist account works well in practice it is in accord with our clear intuitions about cases and it both explains and provides guidance in the cases where our intuitions are murkier

The International Encyclopaedic Dictionary ... ,1901 **Literature 1989, Part 1** Astronomisches Rechen-Institut,2013-11-11 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Review Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine **Research in Education** ,1974 The American Journal of Sociology Albion W. Small, Ellsworth Faris, Ernest Watson Burgess, 1903 Established in 1895 as the first U S scholarly journal in its field AJS remains a leading voice for analysis and research in the social sciences presenting work on the theory methods practice and history of sociology AJS also seeks the application of perspectives from other social sciences and publishes papers by psychologists anthropologists statisticians economists educators historians and political scientists *The American Dictionary and Cyclopedia* Robert Hunter, 1900 **Catalogue of Works on Natural History, Physics, Mathematics, and Other Sciences** Bernard Quaritch (Firm), 1881 **Discover Science: Teacher's annotated edition** ,1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today s technological society Directory of Cancer Research Information Resources International Cancer Research Data

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