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**PHYSICS**  
**SCIENCE Paper – 1**

(3 hours)

*Answers to this Paper must be written on the paper provided separately.*

*You will **not** be allowed to write during the first 15 minutes.*

*This time is to be spent in reading the Question Paper.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

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*Attempt all the questions from **Section I** and any **four** questions from **Section II**.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

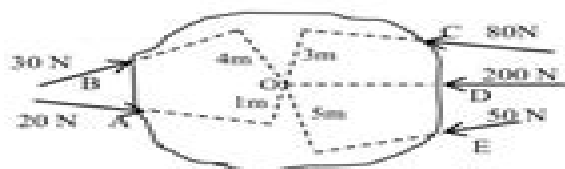
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**SECTION I (40 Marks)**

*Attempt **all** questions from this Section.*

**Question 1**

- (a) Derive the relation between C G S and S I unit of force. [2]
- (b) Classify the following into contact and non contact forces: [2]  
1. Tension 2. Friction 3. Gravitational force 4. Magnetic force.
- (c) Classify the following into levers as class I, class II or class III: [2]  
1. A door 2. Catapult 3. Wheelbarrow 4. Fishing rod.
- (d) Where is the centre of gravity of the following objects situated? [2]  
1. Ring 2. Rhombus 3. Scalene triangle 4. Cylinder.
- (e) Calculate the resultant torque from the following diagram: [2]



# Memorandum Physics Paper 1 Grade 10

**Daniel F McAuley**



## Memorandum Physics Paper 1 Grade 10:

*Resources in Education*, 1998      Title List of Documents Made Publicly Available U.S. Nuclear Regulatory Commission, 1981-10      Teaching at Its Best Linda B. Nilson, 2016-06-22 The classic teaching toolbox updated with new research and ideas Teaching at Its Best is the bestselling research based toolbox for college instructors at any level in any higher education setting Packed with practical guidance proven techniques and expert perspectives this book helps instructors improve student learning both face to face and online This new fourth edition features five new chapters on building critical thinking into course design creating a welcoming classroom environment helping students learn how to learn giving and receiving feedback and teaching in multiple modes along with the latest research and new questions to facilitate faculty discussion Topics include new coverage of the flipped classroom cutting edge technologies self regulated learning the mental processes involved in learning and memory and more in the accessible format and easy to understand style that has made this book a much valued resource among college faculty Good instructors are always looking for ways to improve student learning With college classrooms becoming increasingly varied by age ability and experience the need for fresh ideas and techniques has never been greater This book provides a wealth of research backed practices that apply across the board Teach students practical real world problem solving Interpret student ratings accurately Boost motivation and help students understand how they learn Explore alternative techniques formats activities and exercises Given the ever growing body of research on student learning faculty now have many more choices of effective teaching strategies than they used to have along with many more ways to achieve excellence in the classroom Teaching at Its Best is an invaluable toolbox for refreshing your approach and providing the exceptional education your students deserve      **The Bookseller**, 1907 Official organ of the book trade of the United Kingdom      *Implosion* L. Parker Temple, 2012-11-27 Implosion is a focused study of the history and uses of high reliability solid state electronics military standards and space systems that support our national security and defense This book is unique in combining the interdependent evolution of and interrelationships among military standards solid state electronics and very high reliability space systems Starting with a brief description of the physics that enabled the development of the first transistor Implosion covers the need for standardizing military electronics which began during World War II and continues today The book shows how these twin topics affected and largely enabled the highest reliability and most technologically capable robotic systems ever conceived This riveting history helps readers Realize the complex interdependence of solid state electronics and practical implementations in the national security and defense space programs Understand the evolution of military standards for piece parts quality and reliability as they affected these programs Gain insight into the attempted reforms of federal systems acquisition of security and defense related space systems in the latter half of the twentieth century Appreciate the complexity of science and technology public policy decisions in the context of political organizational and economic realities Written in clear jargon free language but with

plenty of technical detail Implosion is a must read for aerospace and aviation engineers manufacturers and enthusiasts  
 technology students and historians and anyone interested in the history of technology military technology and the space  
 program     Research in Education ,1969     *Electrical World* ,1925     Bibliography of Scientific and Industrial Reports  
 ,1969     **Summary of the Twelfth Meeting of the Refractory Composites Working Group** Webster Hodge,E. S.  
 Bartlett,1967 This memorandum summarizes information on refractory materials and composites that was presented at the  
 Twelfth Meeting of the Refractory Composites Working Group in Denver Colorado on October 17 19 1966 The memorandum  
 is based on 38 papers that were presented at the meeting They are reviewed and discussed briefly within the framework of  
 the following four broad areas materials technology process technology specific hardware applications and tests and  
 evaluation techniques Included in the section on materials technology are discussions dealing with bulk refractory materials  
 coated systems and fiber reinforced composites The section on process technology discusses cladding and general fabrication  
 processes The specific hardware applications and tests cover rocket motor components and jet engine components The  
 section on evaluation techniques cover thermal rain erosion and wear testing Author     **Publisher and Bookseller** ,1907  
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