



PHYSICS SSC-I 2009

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE:- Sections 'B' and 'C' comprise pages 1-2 and questions therein are to be answered on the separately provided answer book. Answer any eleven parts from Section 'B' and attempt any two questions from Section 'C'. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 33)

Q. 2 Attempt any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. (11 x 3 = 33)

(i) Write any three methods to reduce friction.

(ii) Explain the graph:

- a. Line OM
- b. Point A
- c. Point B



(iii) A player throws a cricket ball with a velocity of 40 m s^{-1} at an angle of 60° with the ground. Find the horizontal and vertical components of the velocity of the ball.

(iv) Why is the outer bank of the road kept slightly higher than the inner bank?

(v) Is there any difference between the values of ' g ' at the equator and at the poles? Explain.

(vi) An electric motor lifts a weight of 2 N upto a height of 5 m in 4 seconds. Find the power of the motor.

(vii) What are "Geostationary Satellites"?

(viii) According to the given figure, a piece of ice has been lifted by applying an effort of 1.5 N . If the length of the tongs is 10 cm , then find out the weight of the piece of ice?



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,1998 *Making it tangible. Learning outcomes in science education* Sascha Bernholt,Knut Neumann,Peter Nentwig,2012 One of the central features in current educational reforms is a focus on learning outcomes Many countries have established or revised standards to describe what teachers are supposed to teach and students are expected to learn More recently the emphasis has shifted to considerations of how standards can be operationalized in order to make the outcomes of educational efforts more tangible This book is the result of a symposium held in Kiel that was arranged by two science education groups one at the IPN Leibniz Institute for Science and Mathematics Education at the University of Kiel in Germany and the other at the University of York UK The seminar brought together renowned experts from 12 countries with different notions of the nature and quality of learning outcomes The aim was to clarify central conceptions and approaches for a better understanding among the international science education community The book is divided into five parts In Part A the organizers set the scene describing the rationale for arranging the symposium Part B provides a broad overview about different approaches challenges and pitfalls on the road to the clarification of meaningful and fruitful learning outcomes The set of papers in Part C provides deep insights into different although comparable approaches which aim to frame to assess and to promote learning and learning outcomes in science education Smaller projects are presented as well as broad coordinated national programs The papers in Part D outline the individual historical development from different national perspectives reflecting the deficits and problems that led to current reforms Finally a summary of the organizers analyses the conclusions from different vantage points

Reconsidering Science Learning Eileen Scanlon,2004 This informative book looks at science learning in a wide range of contexts It is divided into three parts Part one deals with the arguments put forward for studying science and includes a discussion on what science learners need to know about the nature of science and how decisions about what forms science curricula are made Part two includes articles on the processes by which science is learned and part three deals with inclusivity and diversity in science learning and what widening participation means for science education This is a companion book to *Mediating Science Learning through ICT* also published by RoutledgeFalmer Reconsidering Science Learning will be of particular interest to teachers on masters courses in science education and academics with an interest in science education

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Connecting Physics Education Research and Practice Italo Testa, Marisa Michelini, Salvatore Esposito, 2025-08-15 This book presents a selection of the most recent research results from the Italian physics education research community aimed at enhancing the teaching and learning of physics The motivation for this publication arises from the lack of a comprehensive reference for teachers on research results in physics education Despite various physics curriculum reform initiatives such as the introduction of modern physics into high school curricula their effectiveness in improving the quality of physics teaching in schools has been limited The book offers a contextualized view of the main topics in physics education along with a comprehensive overview of the current challenges faced by physics education in Italy and abroad It also presents research findings that could potentially enhance students learning of physics Throughout the book the implications of these studies are outlined acknowledging issues and knowledge gaps that will guide future research in physics education Specifically rather than covering all the contents addressed in the physics curriculum the book presents research contributions that suggest potentially effective strategies methods and practices at different school levels from primary school to secondary school and university level Regarding physics content the book presents teaching proposals highlighting conceptual aspects and exemplary methodologies of interpretation in physics such as the

physics of fluids and quantum mechanics It also includes research contributions on different methods and proposals for implementing practical activities reflecting on the role of the laboratory in learning the discipline and providing examples of integrating experimental and cognitive skills The book also addresses the role of affective variables such as physics identity self efficacy and attitudes toward physics in the learning process Additionally studies on teachers professional development are presented which can inform the design of proposals for educational paths and methods within a framework of close collaboration between schools and physics departments

One Version of the Facts Henry E. Duckworth, 2000-10-12 In his engaging memoirs One Version of the Facts My Life in the Ivory Tower Dr Henry Duckworth takes readers from his student days in Winnipeg and Chicago in the 1930s to his time as president of the University of Winnipeg 1971 1981 and chancellor of the University of Manitoba An accomplished physicist he wrote the first definitive text in English on mass spectroscopy discovered the last stable isotope platinum and helped create important programs at universities and at the National Research Council He also served on numerous councils for scientific and university organizations and rubbed shoulders with Nobel Prize winners at international conferences With humour and modesty Henry Duckworth recalls trends changes and crises he witnessed throughout his long university career He offers his observations his opinions his version of the facts providing a special insight into critical years in Canada s university education history as well as his own specialty atomic research

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International Critical Tables of Numerical Data, Physics, Chemistry and Technology National Research Council (U.S.), Callie Hull, 1927 [Astroparticle, Particle, Space Physics And Detectors For Physics Applications - Proceedings Of The 14th Icatpp Conference](#) Simone Giani, Claude Leroy, Larry Price, Pier-giorgio Rancoita, Randal C Ruchti, 2014-06-02 The exploration of the subnuclear world is done through increasingly complex experiments covering a wide range of energy and performed in a large variety of environments ranging from particle accelerators underground detectors to satellites and the space laboratory The achievement of these research

programs calls for novel techniques new materials and instrumentation to be used in detectors often of large scale Therefore fundamental physics is at the forefront of technological advance and also leads to many applications Among these are the progresses from space experiments whose results allow the understanding of the cosmic environment of the origin and evolution of the universe after the Big Bang

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