



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

(QUESTION 5 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 3.00 m/s. See the diagram below.



- 5.1 Define the term non-conservative force.
- 5.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 5.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (4)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant horizontal force acting on the block while moving from point B to point C is 40 N, 40% greater than the magnitude of the constant horizontal force acting on the block when it moves from point A to point B.

- 5.4 Calculate the distance from point A to point B. (5)

(10)

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L Darling-Hammond



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Breaking Point Rebecca Schwartz Greene, 2023-01-03 WINNER SOCIETY FOR MILITARY HISTORY DISTINGUISHED BOOK AWARDS FIRST BOOK This book informs the public for the first time about the impact of American psychiatry on soldiers during World War II *Breaking Point* is the first in depth history of American psychiatry in World War II Drawn from unpublished primary documents oral histories and the author's personal interviews and correspondence over years with key psychiatric and military policymakers it begins with Franklin Roosevelt's endorsement of a universal Selective Service psychiatric examination followed by Army and Navy pre and post induction examinations Ultimately 2.5 million men and women were rejected or discharged from military service on neuropsychiatric grounds Never before or since has the United States engaged in such a program In designing Selective Service Medical Circular No 1 psychiatrist Harry Stack Sullivan assumed psychiatrists could predict who might break down or falter in military service or even in civilian life thereafter While many American and European psychiatrists questioned this belief and huge numbers of American psychiatric casualties soon raised questions about screening's validity psychiatric and military leaders persisted in 1942 and 1943 in endorsing ever tougher screening and little else Soon families complained of fathers and teens being drafted instead of being identified as psychiatric 4Fs and Blacks and Native Americans among others complained of bias A frustrated General George S Patton famously slapped two malingering neuropsychiatric patients in Sicily a sentiment shared by Marshall and Eisenhower though they favored a tamer style Yet psychiatric rejections evacuations and discharges mounted While psychiatrist Roy Grinker and a few others treated soldiers close to the front in Tunisia in early 1943 this was the exception But as demand for manpower soared and psychiatrists finally went to the field and saw that combat itself not predisposition precipitated breakdown leading military psychiatrists switched their emphasis from screening to prevention and treatment But this switch was too little too late and slowed by a year long series of Inspector General investigations even while numbers of psychiatric casualties soared Ironically despite and even partly because of psychiatrists wartime performance plus the emotional toll of war postwar America soon witnessed a dramatic growth in numbers popularity and influence of the profession culminating in the National Mental Health Act 1946 But veterans with PTSD not recognized until 1980 were largely neglected **Army and Navy Journal**, 1946 *The Effect of Radiation on Properties of Polymers* Laurence W. McKeen, 2020-08-20 *The Effect of Radiation on Properties of Polymers* examines the effects of radiation on plastics and elastomers Polymers are required in products or parts for a range of cutting edge applications that are exposed to radiation in areas such as space medicine and radiation processing This book focuses on the effects of radiation exposure within that environment providing in depth data coverage organized by category of polymer Aspects such as radiation impact on mechanical and thermal properties including glass transition and heat deflection temperatures are described demonstrating how changes in these properties affect the performance of plastic or elastomer parts The effect of radiation on electrical properties is also included Supporting

introductory chapters explain the key concepts of radiation including the physical mechanical and thermal properties of plastics and elastomers This is a vital resource for plastics engineers product designers and R D professionals working on products or parts for radioactive environments as well as engineers and scientists in the medical nuclear and radiation processing industries The book also supports researchers and scientists in plastics engineering polymer processing and properties polymer and coatings chemistry materials science and radiation Brings together highly valuable data on the effect of radiation on the properties of polymers and elastomers Enables the reader to compare properties and to select the best possible materials for specific applications Supported by detailed explanations and analysis ensuring that the reader understands how to interpret and utilize the data *Psychology in Everyday Life* David G. Myers, 2014-01-20 David Myers briefest introduction to psychology speaks to all students regardless of their background or level of preparedness with no assumptions made in the vocabulary examples or presentation Students of all kinds are comfortable with Myers manageable chapters which include careful connections to associated visuals comparative tables and research based pedagogy For this edition there is something completely new to a Myers text David Myers personally selected new coauthor Nathan DeWall s enthusiasm for teaching and writing about psychological science makes him uniquely suited to join the worlds bestselling psychology textbook author And with about 30 more pages of coverage this edition has become an even stronger and more complete introduction to the science of psychology for courses of all kinds **Physical Science , Physical Science** ,2008 *Glencoe Physical Science* Charles W. McLaughlin, 2012

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