



basic education

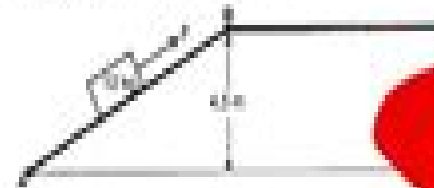
Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

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

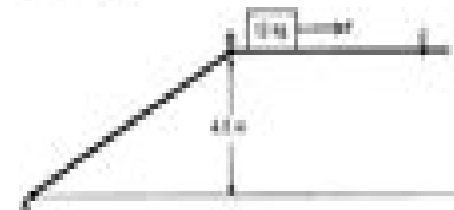
(QUESTIONS 1 (Start on a new page.)

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.



- 6.1 Define the term non-conservative force.
- 6.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 6.3 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 frictional force acting on the block while moving from point B to point C is 40 N, 40% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

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

(14)

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J Dewey



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Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 **FOOD PROCESSING** Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

Captive Audience Catherine Gidney, 2019-04-02 White Spot a popular BC restaurant chain solicits hamburger concepts from third and fourth grade students and one of the student s ideas becomes a feature on the kids menu Home Depot donates playground equipment to an elementary school and the ribbon cutting ceremony culminates in a community swathed in corporate swag temporary tattoos and a new Home Depot song written by a teacher and sung by the children Kindergarten students return home with a school district prescribed dental hygiene flyer featuring a maze leading to a tube of Crest toothpaste Schools receive five cents for each flyer handed to a student While commercialism has existed in our schools for over a century the corporate invasion of our schools reached unprecedented heights in the 1990s and 2000s after two decades of federal funding cuts and an increasing tendency to apply business models to the education system Constant cutbacks have left school trustees administrators teachers and parents with difficult decisions about how to finance programs and support students Meanwhile studies on the impact of advertising and consumer culture on children make clear that the effects are harmful both to the individual child and the broader culture **Captive Audience** explores this compelling history of branding the classroom in Canada

Food Policy Environments: Discursive Effects, Material Consequences Myriam Durocher, Caitlin M. Scott, Irena Knezevic, 2022-07-26 *Government Reports Announcements & Index*, 1987-03

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Everything Science, **Physical science**, 2007 Study and Master Physical Science Grade 10 E. J. van Zyl, V. Caul, A. Meyer, E. Ootsthuizen, 2000-01-30 **DocScientia Physical Sciences** Santie Du Plessis, Jonathan Evans, Carlien Fanoy, Doc Scientia Centre, 2014 **Study and Master Physical Science Grade 10** Karin H. Kelder, 2005-09-01 **Study Master Physical Sciences** was developed by practising teachers and covers all the requirements of the RNCS for Physical

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