



basic education

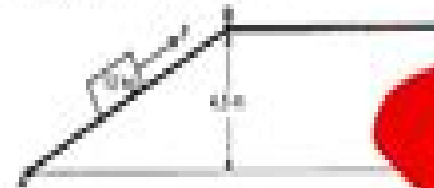
Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

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

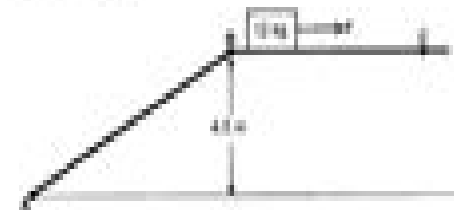
(QUESTION 5 (Start on a new page.)

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 plane.
- 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 frictional force acting on the block while moving from point B to point C is 40 N, 40% of the magnitude of the constant frictional 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)

(14)

2014 Grade12 September History Papermemorandum

John W. Lemza



2014 Grade12 September History Papermemorandum:

Scotland's Choices Iain McLean, 2014-05-30 Scotland's Choices now fully revised for the critical last few months before the referendum explains the choice that Scotland will have to make in September 2014. The authors clearly explain the issues and how each of the options would be put into place.

The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school, a social incubator in a largely segregated city that was highly even improbably successful throughout its 156-year existence. Established in 1855 as Central High School and reorganized in 1916, Schenley High School was a model of innovative public education and an ongoing experiment in diversity. Its graduates include Andy Warhol, actor Bill Nunn, and jazz virtuoso Earl Hines, and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather. The subject of investment as well as destructive neglect, the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt. Integrated decades before *Brown v. Board of Education*, Schenley succumbed to default segregation during the white flight of the 1970s; it rose again to prominence in the late 1980s when parents camped out in six-day-long lines to enroll their children in visionary superintendent Richard C. Wallace's reinvigorated school. Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh, officials closed the school in 2008, citing over \$50 million in necessary renovations, a controversial event that captured national attention. Schenley alumnus Jake Oresick tells this story through interviews, historical documents, and hundreds of first-person accounts drawn from a community indelibly tied to the school. A memorable, important work of local and educational history, his book is a case study of desegregation, magnet education, and the changing nature and legacies of America's oldest public schools.

American Military Communities in West Germany John W. Lemza, 2016-05-13 On April 28, 1946, a small group of American wives and children arrived at the port of Bremerhaven, West Germany, the first of thousands of military family members to make the trans-Atlantic journey. They were the basis of a network of military communities, Little Americas, that would spread across the postwar German landscape. During a 45-year period, which included some of the Cold War's tensest moments, their presence confirmed America's resolve to maintain Western democracy in the face of the Soviet threat. Drawing on archival sources and personal narratives, this book explores these enclaves of Americanism from the U.S. government's perspective to the grassroots view of those who made their homes in Cold War Europe. These families faced many challenges in balancing their military missions with their daily lives during a period of dynamic global change. The author describes interaction in American communities that were sometimes separated, sometimes connected, with their German neighbors.

Systemic and Non-Systemic Opposition in the Russian Federation Cameron Ross, 2016-03-03 Over the period December 2011–July 2013, a tidal wave of mass protests swept through the Russian Capital and engulfed scores of cities and regions. Civil society, it appeared, had at last woken up. This fascinating book examines the rise and fall of the non-

systemic opposition and the role of the systemic political opposition during this turbulent period. Leading experts in the field from Russia along with scholars from the UK and the US reflect on the conditions that have made large scale protests possible, the types of people who have taken part and the goals of the opposition movement at both the national and regional levels. Contributors discuss what steps the regime has taken in response to this challenge and examine the relationship between the systemic and non systemic opposition and what potential exists for the creation of a broad based opposition coalition. The role of the expanding Russian middle class is discussed along with contemporary developments among the Russian left against the backdrop of the global economic crisis. The political, social and ethnic dimensions of the protest movement are also examined at both the national and regional levels in this truly comprehensive study of the rebirth of civil society in modern Russia.

Yearbook of International Organizations 2014-2015 (Volume 4) Union Of International Associations, Union of International Associations, 2014-09-17. The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available. Detailed profiles of international non governmental and intergovernmental organizations (IGO) collected and documented by the Union of International Associations can be found here. In addition to the history, aims and activities of international organizations with their events, publications and contact details, the volumes of the Yearbook include networks between associations, biographies of key people involved and extensive statistical data. Providing both an international organizations and research bibliography, Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings. This volume also includes a research bibliography on international organizations and transnational associations.

Working-Class Utopias Robert M. Fogelson, 2022-10-18. One of the nation's foremost urban historians traces the history of cooperative housing in New York City from the 1920s through the 1970s. As World War II ended and Americans turned their attention to problems at home, union leaders and other prominent New Yorkers came to believe that cooperative housing would solve the city's century old problem of providing decent housing at a reasonable cost for working class families. *Working Class Utopias* tells the story of this ambitious movement from the construction of the Amalgamated Houses after World War I to the building of Co op City, the world's largest housing cooperative, four decades later. Robert Fogelson brings to life a tumultuous era in the life of New York, drawing on a wealth of archival materials such as community newspapers, legal records and personal and institutional papers. In the early 1950s, a consortium of labor unions founded the United Housing Foundation under the visionary leadership of Abraham E. Kazan, who was supported by Nelson A. Rockefeller, Robert F. Wagner Jr and Robert Moses. With the help of the state, which provided below market rate mortgages, and the city, which granted tax abatements, Kazan's group built large scale cooperatives in every borough except Staten Island. Then came Co op City, built in the Bronx in the 1960s as a model for other cities but plagued by unforeseen fiscal problems, culminating in the longest and costliest rent strike in American history. Co op City survived but the United Housing

Foundation did not and neither did the cooperative housing movement Working Class Utopias is essential reading for anyone seeking to understand the housing problem that continues to plague New York and cities across the nation

Conspicuous Consumption in Africa Ilana van Wyk, Deborah Posel, 2019-05-01 A collection of essays examining cultures of consumption on the African continent From early department stores in Cape Town to gendered histories of sartorial success in urban Togo contestations over expense accounts at an apartheid state enterprise elite wealth and political corruption in Angola and Zambia the role of popular religion in the political intransigence of Jacob Zuma funerals of big men in Cameroon youth cultures of consumption in Niger and South Africa queer consumption in Cape Town middle class food consumption in Durban and the consumption of luxury handcrafted beads this collection of essays explores the ways in which conspicuous consumption is foregrounded in various African contexts and historical moments The essays in Conspicuous Consumption in Africa put Thorstein Veblen's concept under robust critical scrutiny delving into the pleasures stresses and challenges of consuming in its religious generational gendered and racialised aspects revealing conspicuous consumption as a layered set of practices textures and relations This volume shows how central and revealing conspicuous consumption can be to fathoming the history of Africa's projects of modernity and their global lineages and legacies In its grounded up close case studies it is likely to feed into current public debates on the nature and future of African societies South African society in particular

Working Class History Working Class History, 2020-12-01 History is not made by kings politicians or a few rich individuals it is made by all of us From the temples of ancient Egypt to spacecraft orbiting Earth workers and ordinary people everywhere have walked out sat down risen up and fought back against exploitation discrimination colonization and oppression Working Class History presents a distinct selection of people's history through hundreds of on this day in history anniversaries that are as diverse and international as the working class itself Women young people people of color workers migrants Indigenous people LGBT people disabled people older people the unemployed home workers and every other part of the working class have organized and taken action that has shaped our world and improvements in living and working conditions have been won only by years of violent conflict and sacrifice These everyday acts of resistance and rebellion highlight just some of those who have struggled for a better world and provide lessons and inspiration for those of us fighting in the present Going day by day this book paints a picture of how and why the world came to be as it is how some have tried to change it and the lengths to which the rich and powerful have gone to maintain and increase their wealth and influence This handbook of grassroots movements curated by the popular Working Class History project features many hidden histories and untold stories reinforced with inspiring images further reading and a foreword from legendary author and dissident Noam Chomsky

Rough Diamonds Hendrik Snyders, 2025-08-22 Starting in the late 19th century South African baseball has established a fascinating and multi-layered history Initially established by a small group of dedicated pioneers the sport benefited from the contributions of a diverse and multi-national group of enthusiasts and opponents including sailors

cricketers missionaries activists businessmen and bureaucrats Established at a time of social and political segregation the South African game eventually developed into a system of legislated racism under apartheid Through its willing participation in official race based events the sport was stripped of its innocence and South Africa was formally expelled from the world game only to be readmitted in 1992 following the country's slow transition to democracy This book presents the history of South African baseball from its inception to its liberation from apartheid Based on extensive archival research this is the first integrated history of South African baseball's eventful past

International Cases in the Business of Sport Simon Chadwick, Dave Arthur, John Beech, 2017-02-28 Contemporary sport is big business Major teams leagues franchises merchandisers and retailers are in fierce competition in a dynamic global marketplace Now in a fully revised and updated second edition **International Cases in the Business of Sport** presents an unparalleled range of cutting edge case studies that show how contemporary sport business is done and provides insight into commercial management practice Written by a team of international experts these case studies cover organisations and events as diverse as the NBA the Americas Cup the Tour de France the PGA tour FC Barcelona and the Australian Open tennis They explore key contemporary themes in sport business and management such as broadcast rights social media strategic development ownership models mega events sports retailing globalisation corruption and financial problems Each case study also includes discussion questions recommended reading and links to useful web resources **International Cases in the Business of Sport** is an essential companion to any sport business or sport management course and fascinating reading for any sport business professional looking to deepen their understanding of contemporary management

2014 Grade12 September History Papermemorandum Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**2014 Grade12 September History Papermemorandum**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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