



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## NATIONAL SENIOR CERTIFICATE

GRADE 12

### PHYSICAL SCIENCES: PHYSICS (P1)

EXEMPLAR 2014

MARKS: 150

TIME: 3 hours

This question paper consists of 16 pages and 3 data sheets.

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Delhees,2025-07-22 Seminar paper from the year 2025 in the subject Business economics Industrial Management grade 1 7 course Analytical Software and Frameworks language English abstract Diese Arbeit analysiert die zentrale Herausforderung moderner Automobilzulieferer im Zeitalter von Industrie 4 0 die Wahl der optimalen IT Infrastruktur f r ein pr diktives Wartungsprojekt Am Praxisbeispiel der AutoParts Innovations GmbH werden On Premise und Public Cloud L sungen anhand von Kriterien wie Skalierbarkeit Sicherheit TISAX Compliance Latenz und Kosten verglichen Die Untersuchung zeigt dass eine Public Cloud Strategie aufgrund ihrer flexiblen Skalierbarkeit und zertifizierten Compliance Vorteile besonders f r mittelst ndische Unternehmen geeignet ist w hrend On Premise Modelle nur noch in Ausnahmef llen rentabel erscheinen Die Arbeit bietet fundierte Entscheidungsgrundlagen und konkrete Handlungsempfehlungen f r die digitale Transformation in der Automobilindustrie

*The case of E-Government for the Balkans in the example on E-Estonia as a factor of economic growth and development* Vaidotas Norkus,2020-04-21 Essay from the year 2017 in the subject Politics Other International Politics Topics grade 1 7 University of Passau language English abstract Nowadays government administration has become outdated The paper based administration has become too slow for nowadays speed of services and shows an immense need for innovation Since the introduction of the internet and information technology society shifted the way we engage with each

other Where the private sector managed to restructure business governments haven t managed to shift towards a more effective use of resources and time One of the first countries to introduce a different mindset on how a government should operate was Estonia This approach of a shift treating a citizen as a consumer and on the other hand seeing government as a producer rather than just executor had an immense impact on the country This approach on being a service oriented government had proven itself as reliable and made Estonia to a leading technology hub worldwide This concept of restructuring a state by having an effective government is transferable to the fairly new Western Balkan states The goal of this essay is to measure the possible impact of E Government for economic growth prosperity and development for the relatively poor Balkan states This essay is conducted as following 1 Introduction to the importance of the topic 2 Theoretical basis of e Government and successful implementations 3 The story of E Estonia 4 Analysis of implementation in the Balkans 5 Closing remarks

**Perl by Example** Ellie Quigley, 2015-01-02 The World s Easiest Perl 5 Tutorial Updated for Today s Applications and Modern Perl Best Practices When I look at my bookshelf I see eleven books on Perl programming Perl by Example Third Edition isn t on the shelf it sits on my desk where I use it almost daily I still think it is the best Perl book on the market for anyone beginner or seasoned programmer who uses Perl daily Bill Maples Enterprise Network Support Fidelity National Information Services Perl by Example Fifth Edition is the proven easy way to master Perl 5 programming Legendary Silicon Valley programming instructor Ellie Quigley has fully updated and focused her classic text on today s key Perl applications especially automation testing data extraction and legacy code maintenance She has also revised this edition to reflect modern Perl practices that have emerged since Perl 5 10 Quigley illuminates every technique with focused classroom tested code examples For each example she shows you code input and output and provides detailed line by line explanations of how the code generates that output And her coverage is comprehensive from basic syntax to regular expression handling files references objects working with databases and much more plus appendices that contain a complete list of functions and definitions command line switches special variables and popular modules New in This Edition Modern Perl approaches to using data types operators conditions subroutines packages modules references pointers files objects and more Many new examples covering automation testing and data extraction A tutorial on writing object oriented Perl with the Moose object system An introduction to Dancer a powerful web application framework designed to replace CGI Updated code examples throughout More than 50 000 sysadmins power users and developers have used this book s previous editions to become expert Perl programmers and you can too even if you re completely new to Perl Then once you re an expert you ll routinely return to this practical guide as the best source for reliable answers solutions and code A more focused quicker read than ever this clear and practical guide will take you from your first Perl script to advanced applications It s the only Perl text you ll need Ellie Quigley has taught scripting in Silicon Valley for more than twenty five years Her Perl and shell programming classes at the University of California Santa Cruz Extension are part of Silicon Valley lore Her other best

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exist that can make a living from their publishing occupation This indicates that weblogs already represent a form of an E Business model However the author does not know of published studies nor papers that have empirically investigated or described the business models of weblogs In order to fill that void the purpose of this bachelor thesis is to provide a systematical guideline from an economic perception in order to establish a weblog It will include potential risk factors and particular requirements as the following chapters will enumerate more clearly Ultimately this paper s aim is to serve potential future bloggers in gaining knowledge about factors they need to pay attention to from the beginning of their work as well as marketers that need to regard unwritten rules when it comes to working with influencers such as bloggers

**Introduction to Information Systems** R. Kelly Rainer,Brad Prince,2021-12-06 Introduction to Information Systems 9th Edition teaches undergraduate business majors how to use information technology to master their current or future jobs Students develop a working understanding of information systems and information technology and learn how to apply concepts to successfully facilitate business processes This course demonstrates that IT is the backbone of any business whether a student is majoring in accounting finance marketing human resources production operations management or MIS

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**The Perception of Public Opinion between Likes, Comments and Media** Christin Rudolph,2019-05-15 Seminar paper from the year 2018 in the subject Communications Media and Politics Politic Communications grade 1 3 University of Mannheim language English abstract Especially for democratic political systems public opinion plays a major role in the political Research on public opinion often focuses on aggregated effects But how do individuals assess what millions of people they have never met think about single issues In recent years SNS have become increasingly important for politics They pose a new means of campaign activities and are targets of new laws e g the Netzwerkdurchsetzungsgesetz in Germany but have also been used for deception cf Hameleers and Schmuck 2017 Esser Stepinska and Hopmann 2016 These developments and the lack of up to date evidence in the literature led me to the following research question What determines the individual perception of public opinion The remainder of the paper is structured as follows After some remarks concerning the definition of the term public opinion I will discuss single influential works for the field in general and briefly the literature of the past two decades examining the specific micro level relationship As the paper aims to examine current implications a focus lies on the effects

of aggregated user opinion representations and comments on SNS embedded in the frameworks of the spiral of silence  
Noelle Neumann 1974 1977 1993 social projection Fields and Schuman 1976 and the persuasive press inference Gunther  
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