

Council for Technical Education and Vocational Training
Office of the Controller of Examinations

Sapthagiri, Bhaktapur

Regular/Back Exam-2078, Magh/Falgun (Scholarship+Regular)
Program: Diploma in Engineering All
Year: I/II (New+Old Course)
Subject: Engineering Mathematics II

Full Mark: 80

Pass Mark: 32

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

margin indicate full marks

Group 'A'

Attempt All questions.

[3x(5+5)=30]

1. a) Construct a 3×3 matrix whose elements are given by $a_{ij} = 3i - 2j$. [5]
b) Solve using row equivalent matrix method or Cramer's rule.
$$\begin{aligned} x + y - z &= 3 \\ 2y + z &= 10 \\ 5x - y - 2z &= -3 \end{aligned}$$
2. a) If Z and W are two complex numbers, prove that $|z| + |w| \geq |z + w|$. [5]
b) State and prove De-Moivre's Theorem. [5]
3. a) Using vector method, prove that $\sin(A + B) = \sin A \cos B + \cos A \sin B$. [5]
b) Find the area of the parallelogram determined by the vectors $\vec{i} + \vec{j} + \vec{k}$ and $-2\vec{i} + 3\vec{j} + \vec{k}$. [5]

Group 'B'

Attempt All questions.

[10x5=50]

1. From the following table calculate the coefficient of correlation. [5]

X	4	8	10	2	6
Y	8	7	5	11	9

Cont.....

Polytechnic Semester 2014 Math Question

Peterson's



Polytechnic Semister 2014 Math Question:

ECGBL2014-8th European Conference on Games Based Learning Carsten Busch,2014-11-11 **Histories of Computing in Eastern Europe** Christopher Leslie,Martin Schmitt,2019-09-11 This book constitutes the refereed post conference proceedings of the IFIP WG 9.7 International Workshop on the History of Computing HC 2018 Held at the 24th IFIP World Computer Congress WCC 2018 in Pozna Poland in September 2018 The 16 revised full papers were carefully reviewed and selected from 20 submissions They reflect academic approaches to history along with the expertise of museum and other public history professionals as well as the experience of computing and information science practitioners The papers are organized in the following sections Eastern Europe Poland Soviet Union CoCom and Comecon analog computing and public history ICAS2014-International Conference on Analytics Driven Solutions Eduardo Rodriguez,Department of Leisure Studies Greg Richards,Greg Richards,2014-09-10 *Learning Science: Theory, Research, and Practice* Robert S. Feldman,2019-08-09 Cutting edge insights and perspectives from today's leading minds in the field of learning science The discipline of learning science is fast becoming a primary approach for answering one of the most important questions of our time How do we most effectively educate students to reach their full potential Spanning the disciplines of psychology data science cognitive science sociology and anthropology Learning Science offers solutions to our most urgent educational challenges Composed of insightful essays from top figures in their respective fields the book also shows how a thorough understanding of this critical discipline all but ensures better decision making when it comes to education Chapters include Exploring Student Interactions in Collaborative Problem Solving with a Multimodal Approach Learning Science Research Through a Social Science Lens Semantic Representation Analysis and its Application in Conversation based Intelligent Tutoring Systems Advancing the Relationship Between Learning Sciences and Teaching Practice Advancing the State of Online Learning Stay Integrated Stay Accessible Stay Curious Designing Immersive Authentic Simulations that Enhance Motivation and Learning High School OER STEM Lessons Leading to Deep Learning For Students and Teachers How to Increase Learning While Not Decreasing the Fun in Educational Games Whether you're creating curricula developing policies or educating students in a classroom setting Learning Science delivers the knowledge insight and inspiration you need to do your part to ensure every student meets his or her full potential Information Technologies and Mathematical Modelling Alexander Dudin,Anatoly Nazarov,Rafael Yakupov,Alexander Gortsev,2014-11-04 This book constitutes the refereed proceedings of the 13th International Scientific Conference on Information Technologies and Mathematical Modeling named after A F Terpigov ITMM 2014 Anzhero Sudzhensk Russia held in Anzhero Sudzhensk Russia in November 2014 The 50 full papers included in this volume were carefully reviewed and selected from 254 submissions The papers focus on probabilistic methods and models queueing theory telecommunication systems and software engineering **Designing Quality Authentic Assessments** Tay Hui Yong,2018-04-19 This book examines the principles and practice of authentic assessment It

seeks to answer the following questions What is authentic assessment How is authentic assessment different from performance assessment or alternative assessment How can authentic assessment support learner centred education especially when a performance oriented culture favours pen and paper examinations The book is structured into two major parts The first Principles of authentic assessment design provides readers with a conceptual explanation of authenticity the principles for designing quality authentic assessments for valid evidence of student learning and guidance about how to develop quality rubrics to structure assessment tasks The second part of the book Theory into practice provides examples developed by teachers to demonstrate an understanding of authentic assessment The subject areas covered include humanities languages mathematics sciences character and citizenship Two case studies are discussed to demonstrate how authentic assessment can be used to comprehensively address key learning objectives in a variety of curriculum contexts This book provides practitioners with concrete examples on how to develop authentic assessment to suit their context and also enhance their students learning The book will also enable teachers to face assessment challenges present in our changing world Chapter 1 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license available at <http://www.taylorfrancis.com> *Teaching and Learning in Maths Classrooms* Chiara Andrà, Domenico Brunetto, Esther Levenson, Peter Liljedahl, 2017-05-03 The book presents a selection of the most relevant talks given at the 21st MAVI conference held at the Politecnico di Milano The first section is dedicated to classroom practices and beliefs regarding those practices taking a look at prospective or practicing teachers views of different practices such as decision making the roles of explanations problem solving patterning and the use of play Of major interest to MAVI participants is the relationship between teachers professed beliefs and classroom practice aspects that provide the focus of the second section Three papers deal with teacher change which is notoriously difficult even when the teachers themselves are interested in changing their practice In turn the book's third section centers on the undercurrents of teaching and learning mathematics which can surface in various situations causing tensions and inconsistencies The last section of this book takes a look at emerging themes in affect related research with a particular focus on attitudes towards assessment The book offers a valuable resource for all teachers and researchers working in this area Graduate Programs in Business, Education, Information Studies, Law & Social Work 2014 (Grad 6) Peterson's, 2013-12-20 Peterson's Graduate Programs in Business Education Information Studies Law Social Work 2014 contains comprehensive profiles of more than 11 000 graduate programs in disciplines such as accounting finance business administration management education human resources international business law library information studies marketing social work transportation management and more Up to date info collected through Peterson's Annual Survey of Graduate and Professional Institutions provides valuable data on degree offerings professional accreditation jointly offered degrees part time evening weekend programs postbaccalaureate distance degrees faculty students requirements expenses financial support faculty research and unit head

and application contact information There are helpful links to in depth descriptions about a specific graduate program or department faculty members and their research and more Also find valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

Mathematical Modeling and Simulation of Systems Serhiy Shkarlet,Anatoliy

Morozov,Alexander Palagin,Dmitri Vinnikov,Nikolai Stoianov,Mark Zhelezniak,Volodymyr Kazymyr,2022-02-23 This book contains works on mathematical and simulation modeling of processes in various domains ecology and geographic information systems IT industry and project management The development of complex multicomponent systems requires an increase in accuracy efficiency and adequacy while reducing the cost of their creation The studies presented in the book are useful to specialists who involved in the development of real events models analog management and decision making models production models and software products Scientists can get acquainted with the latest research in various decisions proposed by leading scholars and identify promising directions for solving complex scientific and practical problems The chapters of this book contain the contributions presented on the 16th International Scientific practical Conference MODS June 28 July 01 2021 Chernihiv Ukraine

ICEL2015-10th International Conference on e-Learning Dr Carlton

Watson,2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25 26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of e Learning available to them With an initial submission of 91 abstracts after the double blind peer review process there are 41 academic Research papers and 2 PhD papers Research papers published in these Conference Proceedings These papers come from some many different countries including Australia Belgium Brazil Canada China Germany Greece Hong Kong Malaysia Portugal Republic of Macedonia Romania Slovakia South Africa Sweden United Arab Emirates UK and the USA A selection of the best papers those agreed by a panel of reviewers and the editor will be published in a conference edition of EJEL the Electronic Journal of e Learning www.ejel.com These will be chosen for their quality of writing and relevance to the Journal s objective of publishing papers that offer new insights or practical help into the application e Learning

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