



PART - B

(5×13=65 Marks)

11. a) Explain each of the following Fuzzy propositions with an example : (13)
- Unconditional and unqualified propositions.
 - Unconditional and qualified propositions.

(OR)

- b) Explain the two different types of fuzzy quantifiers with examples. (13)

12. a) i) Find the canonical basis for the matrix $A = \begin{pmatrix} 5 & 1 & 0 \\ 0 & 5 & 1 \\ 0 & 0 & 5 \end{pmatrix}$. (6)

- ii) Obtain the QR decomposition of the matrix $A = \begin{pmatrix} 1 & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{pmatrix}$. (7)
- (OR)

- b) Obtain the singular value decomposition of the matrix $A = \begin{pmatrix} -1 & 1 \\ 1 & 0 \\ 1 & 1 \end{pmatrix}$. (13)

13. a) i) Find the moment generating function of Poisson distribution and hence find its mean and variance. (6)

- ii) The marks obtained by a number of students in a certain subject are approximately normally distributed with mean 65 and standard deviation 5. If 3 students are selected at random from the group, what is the probability that at least 1 of them would have scored above 75 ? (7)

(OR)

- b) i) Derive the MGF of Gamma distribution and hence find its mean and variance. (6)

- ii) A continuous random variable X has pdf. $f(x) = \begin{cases} \frac{x}{4} e^{-x/2} & x > 0 \\ 0 & \text{otherwise} \end{cases}$. Find the r^{th} moment about the origin and hence find the first four moments about the origin. (7)

14. a) Use dynamic programming to solve Maximize $z = 3x_1 + 5x_2$ subject to the constraints : $x_1 \leq 4$, $x_2 \leq 6$, $3x_1 + 2x_2 \leq 18$ and $x_1, x_2 \geq 0$. (13)

(OR)

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Engineering Mathematics Alex, 2008 **Engineering Mathematics-1** K. Selvamramanujam, 2018-10-10 This is very useful to all engineering national and international students because lot of new methods are introducing this book so students are very easily understanding any critical problems This book is very excellent A Textbook of Engineering Mathematics (For First Year ,Anna University) N.P. Bali, 2009 The Pearson Guide to MCA Entrance Examinations Thorpe, *Inspiring Mathematics: Lessons from the Navajo Nation Math Circles* Dave Auckly, Bob Klein, Amanda Serenevy, Tatiana Shubin, 2019-12-05 The people of the Navajo Nation know mathematics education for their children is essential They were joined by mathematicians familiar with ways to deliver problems and a pedagogy that through exploration shows the art joy and beauty in mathematics This combined effort produced a series of Navajo Math Circles interactive mathematical explorations across the Navajo Reservation This book contains the mathematical details of that effort Between its covers is a thematic rainbow of problem sets that were used in Math Circle sessions on the Reservation The problem sets are good for puzzling over and exploring the mathematical ideas within They will help nurture curiosity and confidence in students The problems come with suggestions for pacing for adjusting the problems to be more or less challenging and for different approaches to solving them This book is a wonderful resource for any teacher wanting to enrich the mathematical lives of students and for anyone curious about mathematical thinking outside the box In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people their parents and teachers and the mathematics profession CLASSICAL MECHANICS RAO, K. SANKARA, 2005-01-01 The knowledge of classical mechanics is vital for understanding advanced technologies in several areas such as automation industrial process control and aerospace The present text is an outcome of the author s long experience in teaching this subject to postgraduate students and his work as a scientist in the area of satellite rocket motion at Vikram Sarabhai Space Centre The basic concepts and principles of mechanics are explained in clear simple terms and illustrated through several examples Keeping student accessibility in mind the book is written in an expository manner aimed at conveying a deep and coherent understanding of the dynamics of a system of particles kinematics of a rigid body motion dynamics of a rigid body in space and orbital motion This is followed by the description of Lagrange and Hamilton methods and the special theory of relativity New topics such as rocket dynamics along with vehicle optimization and three body and n body problems are also presented for the benefit of those students who wish to pursue advanced study in celestial space mechanics Solved examples and exercises reinforce conceptual understanding and highlight application of principles to real world problems Multiple choice questions are modelled on examination pattern of various Indian universities GATE and other competitive examinations The book is well suited for postgraduate students of mathematics physics and engineering particularly those studying aerospace civil and

mechanical engineering Scientists and engineers engaged in the design of multi stage rockets and study of orbits of satellites would also find the book a useful compact source of reference **Resources in Education** ,2000 **The Publisher** ,1908

Publishers' Circular and Booksellers' Record of British and Foreign Literature ,1908 Backpacker ,2001-03

Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against

which all other outdoor industry awards are measured NOAA Week ,1975 **Development of Multimodal Interfaces:**

Active Listening and Synchrony Anna Esposito,Nick Campbell,Carl Vogel,Amir Hussain,Anton Nijholt,2010-04-09 The themes of the papers presented in this book emphasize theoretical and practical issues for modelling human machine interaction ranging from the attempt in describing the spacing and orientation in co present interaction to the effort for developing multimodal interfaces collecting and analysing interaction data and emergent behaviour as well as analysing the use of nonverbal and pragmatic elements of exchanges implementing discourse control and virtual agents and using active listening in computer speech processing **Atlanta Magazine** ,2005-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region *The Ethics Gap in the Engineering of the Future* Spyridon Stelios,Kostas Theologou,2024-11-25 Challenging readers to think about our moral compasses and the multifaceted impact of technology on our everyday lives this collection is an insightful look into engineering ethics and the technology of tomorrow **General**

Catalogue of Printed Books to 1955 British Museum. Dept. of Printed Books,1967 *Outlook* Alfred Emanuel

Smith,Francis Walton,1896 *"The" Athenaeum* ,1896 Athenaeum and Literary Chronicle ,1843 Experimental IR

Meets Multilinguality, Multimodality, and Interaction Jorge Carrillo-de-Albornoz,Alba García Seco de Herrera,Julio

Gonzalo,Laura Plaza,Josiane Mothe,Florina Piroi,Paolo Rosso,Damiano Spina,Guglielmo Faggioli,Nicola Ferro,2025-09-02 This volume constitutes the proceedings of the 16th International Conference of the CLEF Association on Experimental IR

Meets Multilinguality Multimodality and Interaction CLEF 2025 held in Madrid Spain during September 9 12 2025 The 25

full papers included in this book were carefully reviewed and selected from 33 submissions They were organized in the following sections Conference Papers Best of CLEF 2024 Labs and Condensed Labs Overviews **Mathematical Reviews**,2006

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