

## ANSWERS & HINTS for WBJEEM - 2014 SUB : MATHEMATICS

### CATEGORY - I

Q.1 to Q.60 carry one mark each, for which only one option is correct. Any wrong answer will lead to deduction of 1/3 mark.

1. Let the equation of an ellipse be  $\frac{x^2}{144} + \frac{y^2}{25} = 1$ . Then the radius of the circle with centre  $(0, \sqrt{2})$  and passing through the foci of the ellipse is

(A) 9

(B) 7

(C) 11

(D) 5

Ans : (C)

Hints :  $a^2 = 144$ ,  $b^2 = 25$   $P(0, \sqrt{2})$ ,  $S(ae, 0)$ Radius = PS,  $S(\sqrt{119}, 0)$  PS = 11

2. If  $y = 4x + 3$  is parallel to a tangent to the parabola  $y^2 = 4x$ , then its distance from the normal parallel to the given line is

(A)  $\frac{213}{\sqrt{17}}$ (B)  $\frac{219}{\sqrt{17}}$ (C)  $\frac{211}{\sqrt{17}}$ (D)  $\frac{210}{\sqrt{17}}$ 

Ans : (B)

Hints :  $m = \text{slope of line} = 4$  $y = mx - 2am - am^3$  (Normal) $y = 4x - 216$ . Distance =  $\frac{219}{\sqrt{17}}$ 

3. In a  $\Delta ABC$ ,  $\tan A$  and  $\tan B$  are the roots of  $pq(x^2 + 1) = r^2x$ . Then  $\Delta ABC$  is

(A) a right angled triangle

(B) an acute angled triangle

(C) an obtuse angled triangle

(D) an equilateral triangle

Ans : (A)

Hints :  $pqx^2 - r^2x + pq = 0$  $\tan A \tan B = 1$  so  $\tan(A+B)$  is undefined  $\therefore \angle C = \pi/2$ 

4. Let the number of elements of the sets  $A$  and  $B$  be  $p$  and  $q$  respectively. Then the number of relations from the set  $A$  to the set  $B$  is

(A)  $2^{p+q}$ (B)  $2^{pq}$ (C)  $p + q$ (D)  $pq$ 

Ans : (B)

Hints :  $O(A) = p$   $O(B) = q$  ;  $O(A \times B) = pq$

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**The Mathematics of Financial Models** Kannoo Ravindran, 2014-09-02 Learn how quantitative models can help fight client problems head on Before financial problems can be solved they need to be fully understood Since in depth quantitative modeling techniques are a powerful tool to understanding the drivers associated with financial problems one would need a solid grasp of these techniques before being able to unlock their full potential of the methods used In The Mathematics of Financial Models the author presents real world solutions to the everyday problems facing financial professionals With interactive tools such as spreadsheets for valuation pricing and modeling this resource combines highly mathematical quantitative analysis with useful practical methodologies to create an essential guide for investment and risk management professionals facing modeling issues in insurance derivatives valuation and pension benefits among others In addition to this this resource also provides the relevant tools like matrices calculus statistics and numerical analysis that are used to build the quantitative methods used Financial analysts investment professionals risk management professionals and graduate students will find applicable information throughout the book and gain from the self study exercises and the refresher course on key mathematical topics Equipped with tips and information The Mathematics of Financial Models Provides practical methodologies based on mathematical quantitative analysis to help analysts investment and risk management professionals better navigate client issues Contains interactive tools that demonstrate the power of analysis and modeling Helps financial professionals become more familiar with the challenges across a range of industries Includes a mathematics refresher course and plenty of exercises to get readers up to speed The Mathematics of Financial Models is an in depth guide that helps readers break through common client financial problems and emerge with clearer strategies for solving issues in the future

**Probability and Random Processes** Venkatarama Krishnan, 2015-07-15 The second edition enhanced with new chapters figures and appendices to cover the new developments in applied mathematical functions This book examines the topics of applied mathematical functions to problems that engineers and researchers solve daily in the course of their work The text covers set theory combinatorics random variables discrete and continuous probability distribution functions convergence of random variables computer generation of random variates random processes and stationarity concepts with associated autocovariance and cross covariance functions estimation theory and Wiener and Kalman filtering ending with two applications of probabilistic methods Probability tables with nine decimal place accuracy and graphical Fourier transform tables are included for quick reference The author facilitates understanding of probability concepts for both students and practitioners by presenting over 450 carefully detailed figures and illustrations and over 350 examples with every step explained clearly and some with multiple solutions Additional features of the second

edition of Probability and Random Processes are Updated chapters with new sections on Newton Pepys problem Pearson Spearman and Kendal correlation coefficients adaptive estimation techniques birth and death processes and renewal processes with generalizations A new chapter on Probability Modeling in Teletraffic Engineering written by Kavitha Chandra An eighth appendix examining the computation of the roots of discrete probability generating functions With new material on theory and applications of probability Probability and Random Processes Second Edition is a thorough and comprehensive reference for commonly occurring problems in probabilistic methods and their applications

**Techniques for Designing and Analyzing Algorithms** Douglas R. Stinson, 2021-07-28 Techniques for Designing and Analyzing Algorithms Design and analysis of algorithms can be a difficult subject for students due to its sometimes abstract nature and its use of a wide variety of mathematical tools Here the author an experienced and successful textbook writer makes the subject as straightforward as possible in an up to date textbook incorporating various new developments appropriate for an introductory course This text presents the main techniques of algorithm design namely divide and conquer algorithms greedy algorithms dynamic programming algorithms and backtracking Graph algorithms are studied in detail and a careful treatment of the theory of NP completeness is presented In addition the text includes useful introductory material on mathematical background including order notation algorithm analysis and reductions and basic data structures This will serve as a useful review and reference for students who have covered this material in a previous course Features The first three chapters provide a mathematical review basic algorithm analysis and data structures Detailed pseudocode descriptions of the algorithms along with illustrative algorithms are included Proofs of correctness of algorithms are included when appropriate The book presents a suitable amount of mathematical rigor After reading and understanding the material in this book students will be able to apply the basic design principles to various real world problems that they may encounter in their future professional careers

Principles of Sequencing and Scheduling Kenneth R. Baker, Dan Trietsch, 2018-10-19 An updated edition of the text that explores the core topics in scheduling theory The second edition of Principles of Sequencing and Scheduling has been revised and updated to provide comprehensive coverage of sequencing and scheduling topics as well as emerging developments in the field The text offers balanced coverage of deterministic models and stochastic models and includes new developments in safe scheduling and project scheduling including coverage of project analytics These new topics help bridge the gap between classical scheduling and actual practice The authors noted experts in the field present a coherent and detailed introduction to the basic models problems and methods of scheduling theory This book offers an introduction and overview of sequencing and scheduling and covers such topics as single machine and multi machine models deterministic and stochastic problem formulations optimization and heuristic solution approaches and generic and specialized software methods This new edition adds coverage on topics of recent interest in shop scheduling and project scheduling This important resource Offers comprehensive coverage of deterministic models as well as recent approaches and developments for stochastic models

Emphasizes the application of generic optimization software to basic sequencing problems and the use of spreadsheet based optimization methods Includes updated coverage on safe scheduling lognormal modeling and job selection Provides basic coverage of robust scheduling as contrasted with safe scheduling Adds a new chapter on project analytics which supports the PERT21 framework for project scheduling in a stochastic environment Extends the coverage of PERT 21 to include hierarchical scheduling Provides end of chapter references and access to advanced Research Notes to aid readers in the further exploration of advanced topics Written for upper undergraduate and graduate level courses covering such topics as scheduling theory and applications project scheduling and operations scheduling the second edition of Principles of Sequencing and Scheduling is a resource that covers scheduling techniques and contains the most current research and emerging topics

**Collaborative Approaches to Evaluation** J. Bradley Cousins,2019-06-25 Editor J Bradley Cousins and colleagues meet the needs of evaluators seeking to implement collaborative and participatory approaches to evaluation in Collaborative Approaches to Evaluation Principles in Use Using a multi phase empirical process to develop and validate a set of principles to guide collaborative approaches to evaluation the book outlines the principles that the team developed and then provides case studies of how these principles have been applied in practice The case studies draw on programs globally in education health and community development The book is an invaluable supplementary text for program evaluation courses where students projects are focused on more collaborative and participatory approaches and it is an essential resource for practicing evaluators and those who commission program evaluations

**Theory and Applications of Models of Computation** Ding-Zhu Du,Donglei Du,Chenchen Wu,Dachuan Xu,2023-01-01 This book constitutes the refereed proceedings of the 17th Annual Conference on Theory and Applications of Models of Computation TAMC 2022 held as a virtual event in September 2022 The 33 full papers were carefully reviewed and selected from 75 submissions The main themes of the selected papers are computability complexity algorithms information theory and their extensions to machine learning theory and foundations of artificial intelligence

**Applied Reconfigurable Computing. Architectures, Tools, and Applications** Francesca Palumbo,Georgios Keramidas,Nikolaos Voros,Pedro C. Diniz,2023-09-15 This book constitutes the proceedings of the 19th International Symposium on Applied Reconfigurable Computing ARC 2023 which was held in Cottbus Germany in September 2023 The 18 full papers presented in this volume were reviewed and selected from numerous submissions The proceedings also contain 4 short PhD papers The contributions were organized in topical sections as follows Design methods and tools applications architectures special session near and in memory computing and PhD forum papers

**Daily Graphic** Ransford Tetteh,2014-09-25 **Algorithms and Architectures for Parallel Processing** Jaideep Vaidya,Jin Li,2018-12-06 The four volume set LNCS 11334 11337 constitutes the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2018 held in Guangzhou China in November 2018 The 141 full and 50 short papers presented were carefully reviewed and selected from numerous submissions The papers are organized in

topical sections on Distributed and Parallel Computing High Performance Computing Big Data and Information Processing  
 Internet of Things and Cloud Computing and Security and Privacy in Computing     Integer and Combinatorial Optimization  
 Laurence A. Wolsey, George L. Nemhauser, 2014-08-28 Rave reviews for INTEGER AND COMBINATORIAL OPTIMIZATION  
 This book provides an excellent introduction and survey of traditional fields of combinatorial optimization It is indeed one of  
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 with clear up to date explanations on why some problems are difficult to solve how techniques can be reformulated to give  
 better results and how mixed integer programming systems can be used more effectively 1998 0 471 28366 5 260 pp

**Elements of Combinatorial Computing** Mark B. Wells, 2014-05-09 Elements of Combinatorial Computing focuses on  
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 look at a language for combinatorial computing language implementation and program efficiency and computer  
 representation of mathematical objects Discussions focus on geometric configurations elementary combinatorial  
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 iteration and recursion and nested iteration and recursive programming The text then takes a look at backtrack  
 programming generation of elementary configurations and additional basic techniques and manipulations Topics include  
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 partitions subsets and combinations and basic backtracking and impasse detection The book examines additional basic  
 techniques and manipulations and applications of advanced algorithms The publication is highly recommended for computer  
 science experts and researchers interested in the elements in combinatorial computing     **Smart Delivery Systems** Jakub  
 Nalepa, 2019-11-21 Smart Delivery Systems Solving Complex Vehicle Routing Problems examines both exact and approximate  
 methods for delivering optimal solutions to rich vehicle routing problems showing both the advantages and disadvantages of  
 each approach It shows how to apply machine learning and advanced data analysis techniques to improve routing systems

familiarizing readers with the concepts and technologies used in successfully implemented delivery systems The book explains both the latest theoretical and practical advances in intelligent delivery and scheduling systems and presents practical applications for designing new algorithms for real life scenarios

**Proceedings of the 3rd Annual Conference of Education and Social Sciences (ACCESS 2021)** Amrullah Amrullah,Lovy Herayanti,Tesha Sengupta-Irving,Yeo Sook Fern,Fathoroni Fathoroni,Imran Imran,2023-02-10 This is an open access book Faculty of Teacher Training and Education of the University of Mataram proudly presents the 4th Annual Conference on Education and Social Science ACCESS in 2022 ACCESS is an iconic international scientific forum which discusses new ideas and innovations especially those related to education and pedagogy generally in relation to sciences and technology Since 2019 ACCESS has been attended by hundreds of participants from various different countries such as the United States Malaysia Australia Philippines Japan Singapore and so on

Web and Internet Economics Ioannis Caragiannis,Vahab Mirrokni,Evdokia Nikolova,2019-11-21 This book constitutes the proceedings of the 14th International Conference on Web and Internet Economics WINE 2019 held in New York City USA in December 2019 The 23 revised full papers presented were carefully reviewed and selected from 111 submissions T The papers reflect the work of researchers in theoretical computer science artificial intelligence and microeconomics who have joined forces to tackle problems at the intersection of computation game theory and economics

*Probability in Electrical Engineering and Computer Science* Jean Walrand,2021-06-22 This revised textbook motivates and illustrates the techniques of applied probability by applications in electrical engineering and computer science EECS The author presents information processing and communication systems that use algorithms based on probabilistic models and techniques including web searches digital links speech recognition GPS route planning recommendation systems classification and estimation He then explains how these applications work and along the way provides the readers with the understanding of the key concepts and methods of applied probability Python labs enable the readers to experiment and consolidate their understanding The book includes homework solutions and Jupyter notebooks This edition includes new topics such as Boosting Multi armed bandits statistical tests social networks queuing networks and neural networks For ancillaries related to this book including examples of Python demos and also Python labs used in Berkeley please email Mary James at mary.james@springer.com This is an open access book

**High-Performance Computing in Finance** M. A. H. Dempster,Juho Kanninen,John Keane,Erik Vynckier,2018-02-21 High Performance Computing HPC delivers higher computational performance to solve problems in science engineering and finance There are various HPC resources available for different needs ranging from cloud computing that can be used without much expertise and expense to more tailored hardware such as Field Programmable Gate Arrays FPGAs or D Wave s quantum computer systems High Performance Computing in Finance is the first book that provides a state of the art introduction to HPC for finance capturing both academically and practically relevant problems

*Optimization and Games for Controllable Markov Chains* Julio B.

Clempner, Alexander Poznyak, 2023-12-13 This book considers a class of ergodic finite controllable Markov chains. The main idea behind the method described in this book is to develop the original discrete optimization problems or game models in the space of randomized formulations where the variables stand in for the distributions mixed strategies or preferences of the original discrete pure strategies in the use. The following suppositions are made: a finite state space, a limited action space, continuity of the probabilities and rewards associated with the actions, and a necessity for accessibility. These hypotheses lead to the existence of an optimal policy. The best course of action is always stationary. It is either simple, i.e., nonrandomized, stationary, or composed of two nonrandomized policies, which is equivalent to randomly selecting one of two simple policies throughout each epoch by tossing a biased coin. As a bonus, the optimization procedure just has to repeatedly solve the time average dynamic programming equation, making it theoretically feasible to choose the optimum course of action under the global restriction. In the ergodic cases, the state distributions generated by the corresponding transition equations exponentially quickly converge to their stationary final values. This makes it possible to employ all widely used optimization methods such as Gradient-like procedures, Extra proximal method, Lagrange's multipliers, Tikhonov's regularization, including the related numerical techniques. In the book, we tackle different problems and theoretical Markov models like controllable and ergodic Markov chains, multi-objective Pareto front solutions, partially observable Markov chains, continuous time Markov chains, Nash equilibrium, and Stackelberg equilibrium. Lyapunov-like function in Markov chains, Best reply strategy, Bayesian incentive compatible mechanisms, Bayesian Partially Observable Markov Games, bargaining solutions for Nash and Kalai Smorodinsky formulations, multi-traffic signal control synchronization problem, Rubinstein's non-cooperative bargaining solutions, the transfer pricing problem as bargaining.

**Uncertainty Management with Fuzzy and Rough Sets** Rafael Bello, Rafael Falcon, José Luis Verdegay, 2019-01-22

This book offers a timely overview of fuzzy and rough set theories and methods. Based on selected contributions presented at the International Symposium on Fuzzy and Rough Sets ISFUROS 2017 held in Varadero, Cuba, on October 24-26, 2017, the book also covers related approaches such as hybrid rough fuzzy sets and hybrid fuzzy rough sets and granular computing, as well as a number of applications from big data analytics to business intelligence, security, robotics, logistics, wireless sensor networks, and many more. It is intended as a source of inspiration for PhD students and researchers in the field, fostering not only new ideas but also collaboration between young researchers and institutions and established ones.

**Integer Programming** Hamdy A. Taha, 2014-05-10 Integer Programming: Theory, Applications, and Computations provides information pertinent to the theory, applications, and computations of integer programming. This book presents the computational advantages of the various techniques of integer programming. Organized into eight chapters, this book begins with an overview of the general categorization of integer applications and explains the three fundamental techniques of integer programming. This text then explores the concept of implicit enumeration, which is general in a sense that it is applicable to any well-defined binary program. Other chapters consider the branch and bound



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