Number of Questions: 25

Section Marks: 30

Directions for questions 1 to 25: Select the correct alternative from the given choices.

1. Which of the following is FALSE?
   I: Any regular language is context free language.
   II: There exists a DPDA (Deterministic Push Down Automata) for every CFL.
   (A) I only
   (B) II only
   (C) Both I and II
   (D) Neither I nor II

2. Which of the following figure correctly specifies the relation between regular languages (R), deterministic CFLs (DC) and CFLs (C)?

   (A)

   (B)

(C) If $L_1 \subset L_2$ then $L_1^* \subset L_2^*$
(D) If L_1 is finite then it is regular.

7. Which of the following strings are generated by the regular expression,
   $$R = (abc)^* (a + b) ba?$$
   (i) ε
   (ii) aba
   (iii) $ababba$
   (iv) $ababababa$
   (A) (i), (iii)
   (B) (ii), (iii)
   (C) (iii), (iv)
   (D) (ii), (iv)

8. The regular expression $R = (abc)^* ((a + b) \cdot \phi) ba$ is equivalent to
   (A) $(abc)^* (a + b) ba$
   (B) $(abc)^* ba$
   (C) ba
   (D) ϕ

9. Which of the following identity is FALSE for regular expressions?
   (i) $R + R = R$
   (ii) $RR^* = R^*R$
   (iii) $\varepsilon R = R\varepsilon = R$
   (A) (i), (ii), (iii)
   (B) (i) only

[Theory Of Computation Questions With Answers](...)

Zhe Xu

Theory Of Computation Questions With Answers:

Randomness Through Computation: Some Answers, More Questions Hector Zenil,2011-02-11 This review volume consists of a set of chapters written by leading scholars most of them founders of their fields It explores the connections of Randomness to other areas of scientific knowledge especially its fruitful relationship to Computability and Complexity Theory and also to areas such as Probability Statistics Information Theory Biology Physics Quantum Mechanics Learning Theory and Artificial Intelligence The contributors cover these topics without neglecting important philosophical dimensions sometimes going beyond the purely technical to formulate age old questions relating to matters such as determinism and free will The scope of Randomness Through Computation is novel Each contributor shares their personal views and anecdotes on the various reasons and motivations which led them to the study of Randomness Using a question and answer format they share their visions from their several distinctive vantage points   Washington 2020 Master Electrician Exam Questions and Study Guide Ray Holder,2020-06-22 The Washington 2020 Master study guide will help you prepare for the exam by providing 12 practice open book exams and 2 Final Closed Book Exams Includes Washington License Forms and Sample Applications This book also covers most topics that are included on all Master Electricians exams such as conductor sizing and protection motors transformers voltage drop over current protection and residential and commercial load calculations The text contains the most widely used electrical calculations and formulas the reader needs to pass the Master electrical competency exam About the AuthorRay Holder has worked in the electrical industry for more than 40 years as an apprentice journeyman master field engineer estimator business manager contractor inspector and instructor He is a graduate of Texas State University and holds a Bachelor of Science Degree in Occupational Education A certified instructor of electrical trades he has been awarded a lifetime teaching certificate from the Texas Education Agency in the field of Vocational Education Mr Holder has taught thousands of students at Austin Community College Austin Texas Odessa College at Odessa Texas Technical Vocational Institute of Albuquerque New Mexico Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers   Washington 2020 Journeyman Electrician Exam Questions and Study Guide Ray Holder,2020-06-14 The Washington 2020 Journeyman study guide will help you prepare for the exam by providing 12 practice open book exams and 2 Final Closed Book Exams Includes Washington License Forms and Sample Applications This book also covers most topics that are included on all Journeyman Electricians exams such as conductor sizing and protection motors transformers voltage drop over current protection and residential and commercial load calculations The text contains the most widely used electrical calculations and formulas the reader needs to pass the Journeyman electrical competency exam About the AuthorRay Holder has worked in the electrical industry for more than 40 years as an apprentice

journeyman master field engineer estimator business manager contractor inspector and instructor He is a graduate of Texas State University and holds a Bachelor of Science Degree in Occupational Education A certified instructor of electrical trades he has been awarded a lifetime teaching certificate from the Texas Education Agency in the field of Vocational Education Mr Holder has taught thousands of students at Austin Community College Austin Texas Odessa College at Odessa Texas Technical Vocational Institute of Albuquerque New Mexico Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers **Massachusetts Certified Public Accountant Examination, Questions with Answers** Harry Clark Bentley,1927 **Proceedings of the European Cognitive Science Conference 2007** Stella Vosniadou,2017-09-29 This volume contains the invited lectures invited symposia symposia papers and posters presented at the 2nd European Cognitive Science Conference held in Greece in May 2007 The papers presented in this volume range from empirical psychological studies and computational models to philosophical arguments meta analyses and even to neuroscientific experimentation The quality of the work shows that the Cognitive Science Society in Europe is an exciting and vibrant one There are 210 contributions by cognitive scientists from 27 different countries including USA France UK Germany Greece Italy Belgium Japan Spain the Netherlands and Australia This book will be of interest to anyone concerned with current research in Cognitive Science *Dynamics, Synergetics, Autonomous Agents* Wolfgang Tschacher,Jean-Pierre Dauwalder,1999 This volume focuses on the modeling of cognition and brings together contributions from psychologists and researchers in the field of cognitive science The shared platform of this work is to advocate a dynamical systems approach to cognition Several aspects of this approach are considered here chaos theory artificial intelligence and Alife models catastrophe theory and most importantly self organization theory or synergetics The application of nonlinear systems theory to cognitive science in general and to cognitive psychology in particular is a growing field that has gained further momentum thanks to new contributions from the science of robotics The recent development in cognitive science towards an account of embodiment together with the general approach of complexity theory and dynamics will have a major impact on our psychological understanding of reasoning thinking and behavior *Computing Nature* Gordana Dodig-Crnkovic,Raffaela Giovagnoli,2013-03-21 This book is about nature considered as the totality of physical existence the universe and our present day attempts to understand it If we see the universe as a network of networks of computational processes at many different levels of organization what can we learn about physics biology cognition social systems and ecology expressed through interacting networks of elementary particles atoms molecules cells and especially neurons when it comes to understanding of cognition and intelligence organs organisms and their ecologies Regarding our computational models of natural phenomena Feynman famously wondered Why should it take an infinite amount of logic to

figure out what one tiny piece of space time is going to do Phenomena themselves occur so quickly and automatically in nature Can we learn how to harness nature s computational power as we harness its energy and materials This volume includes a selection of contributions from the Symposium on Natural Computing Unconventional Computing and Its Philosophical Significance organized during the AISB IACAP World Congress 2012 held in Birmingham UK on July 2 6 on the occasion of the centenary of Alan Turing s birth In this book leading researchers investigated questions of computing nature by exploring various facets of computation as we find it in nature relationships between different levels of computation cognition with learning and intelligence mathematical background relationships to classical Turing computation and Turing s ideas about computing nature unorganized machines and morphogenesis It addresses questions of information representation and computation interaction as communication concurrency and agent models in short this book presents natural computing and unconventional computing as extension of the idea of computation as symbolmanipulation

Automata Theory University of Michigan. Engineering Summer Conferences,1963 **Journal of Accountancy** ,1956 *Testing and Measurement* Sharon E. Robinson Kurpius,Mary E. Stafford,2006 Written with Bandura s social learning theory in mind Testing and Measurement A User Friendly Guide allows students to master testing and measurement through a three stage learning process presentation of information modeling and practice with direct feedback Authors Sharon E Robinson Kurpius and Mary E Stafford take students through the essential components of measurement starting with measurement scales and ending with reliability and validity Taking the attitude that everyone can learn testing and measurement concepts the authors make this learning process fun and non threatening **Theory of Computation** S. N. Sivanandam,2009-01-01 The book is meant for a wide range of students doing their undergraduation and postgraduation courses related to Computer Science All the concepts are elaborated with illustrations Algorithmic procedures are provided at the necessary locations Numerous examples are given for similar but different kinds of problems Problems similar to the examples are given as Exercises Objective questions with solutions are given at the end of each chapter The basic concepts of automata theory various types of automata and their limitations are given with examples Turing machines are also dealt with in this book and the execution of Turing machines is traced for better understanding Classification of decidable and undecidable problems is dealt with in detail The book will also be useful for students who are preparing for competitive examinations SALIENT FEATURES OF THE BOOK Detailed explanation of the concepts in formal languages and automata theory Several pictorial representations for better understanding Simple stepwise procedure for designing finite and pushdown automata designing Turing machines for recognizing languages and computing functions Tracing the execution of the automata and Turing machines designed Decidability and intractability are dealt with simple illustrations About 350 solved problems 200 exercise problems and 225 objective questions with answers Syllabus covered for Theory of Computation of B E B Tech BCA MCA M Sc and M E of various universities **CPA Problems and Approaches to**

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