

## Theory of Computer Science

2\*30 + 5\*30

- Note. (1) Question No 1 is Compulsory.  
 (2) Attempt any four questions from remaining six questions.  
 (3) Figures to the right indicate full marks given to the question.  
 (4) Assume suitable data, if necessary.

1. (a) Distinguish between NFA and DFA (4)  
 (b) Design Finite Automata from  $1(0/1)^*0$  Regular Expression (5)  
 (c) Explain CNF and GNF with example. (5)  
 (d) Explain Classes of Complexity with example. (6)
2. (a) Design a Moore and Mealy Machine to convert substring **aba** into **abb**. (10)  
 (b) Construct DFA accepting the following language (10)  
 (i) Strings ending with 110 or 111  
 (ii) String containing 010 as a substring.
3. (a) (b) Let G be the grammar (10)  

$$S \rightarrow aB|bA$$

$$A \rightarrow a|aS|bAA$$

$$B \rightarrow b|bS|aBB$$

Find leftmost derivation, rightmost derivation and parse tree for the string "bbaaabbaba".

 (b) Design a PDA for the following CFG (10)  

$$S \rightarrow (S) | SS | \wedge$$
4. (a) State and explain pumping Lemma for regular languages. (10)  
 Using Pumping lemma, show that following grammars are not regular.  
 (i)  $L = \{1^n | n \text{ is prime number}\}$   
 (ii)  $L = \{0^n 10^n | n > 0\}$   
 (b) Design a TM to subtract two numbers (e.g. m and n are two integers and m-n is to be evaluated) assume  $m > n$  (10)
5. (a) Construct NFA from  $(0+1)^*(00+11)$  and convert into minimized DFA (10)  
 (b) Write CFG for language having number of a's greater than number of b's and Design a PDA for the same. (10)
6. (a) Design a TM to accept language  $\{0^n 1^n | n > 0\}$  (10)  
 (b) Explain decision properties for regular languages (10)
7. Write short notes on (Any Four) (20)  
 (a) Variants of TM  
 (b) Deterministic Pushdown Automata  
 (c) Recursive and Recursively Enumerated Languages  
 (d) Complements of languages in NP  
 (e) Chomsky Hierarchy

# Sample Question Paper Third Semester Computer Engineering

**Mark Zhou, Honghua Tan**



### **Sample Question Paper Third Semester Computer Engineering:**

Discrete Mathematical Structures (MGU, Kerala) Sem-III for CS & IT ,      Web Based Application Development

Anuradha A. Puntambekar,2020-12-01 This textbook has been written in such a way that the concepts are explained with the help of examples The book covers the topics right from basics of PHP programming such as variables data types operators control structures arrays to graphics The book also covers implementation of object oriented concepts such as classes objects inheritance overloading and so on In the next subsequent unit the textbook covers creating and validating forms Finally the book explains how to connect to database using PHP and MySQL laying more stress on examples Thus this book helps the students to learn the PHP programming in the most lucid way      **Information and Management Engineering** Min

Zhu,2011-09-06 This six volume set CCIS 231 232 233 234 235 236 constitutes the refereed proceedings of the International Conference on Computing Information and Control ICCIC 2011 held in Wuhan China in September 2011 The papers are organized in two volumes on Innovative Computing and Information CCIS 231 and 232 two volumes on Computing and Intelligent Systems CCIS 233 and 234 and in two volumes on Information and Management Engineering CCIS 235 and 236

*Software Engineering* M. N. Hoda,Naresh Chauhan,S. M. K. Quadri,Praveen Ranjan Srivastava,2018-06-12 This book presents selected proceedings of the annual convention of the Computer Society of India Divided into 10 topical volumes the proceedings present papers on state of the art research surveys and succinct reviews They cover diverse topics ranging from communications networks to big data analytics and from system architecture to cyber security This book focuses on Software Engineering and informs readers about the state of the art in software engineering by gathering high quality papers that represent the outcomes of consolidated research and innovations in Software Engineering and related areas In addition to helping practitioners and researchers understand the chief issues involved in designing developing evolving and validating complex software systems it provides comprehensive information on developing professional careers in Software Engineering It also provides insights into various research issues such as software reliability verification and validation security and extensibility as well as the latest concepts like component based development software process models process driven systems and human computer collaborative systems      **Advances in Computer Science and Education Applications**

Mark Zhou,Honghua Tan,2011-06-30 This two volume set CCIS 201 and CCIS 202 constitutes the refereed proceedings of the International Conference on Computer Science and Education CSE 2011 held in Qingdao China in July 2011 The 164 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions The papers address a large number of research topics and applications from artificial intelligence to computers and information technology from education systems to methods research and other related issues such as database technology computer architecture software engineering computer graphics control technology systems engineering network communication and other advanced technology computer education and life long education      Foundations of Computer Science and Frontiers

in Education: Computer Science and Computer Engineering Hamid R. Arabnia, Leonidas Deligiannidis, Soheyla Amirian, Farid Ghareh Mohammadi, Farzan Shenavarmasouleh, 2025-05-24 This book constitutes the proceedings of the 20th International Conference on Foundations of Computer Science FCS 2024 and the 20th International Conference on Frontiers in Education FECS 2024 held as part of the 2024 World Congress in Computer Science Computer Engineering and Applied Computing in Las Vegas USA during July 22 to July 25 2024 The 10 FECS 2024 papers included were carefully reviewed and selected from 43 submissions FCS 2024 received 172 submissions and accepted 31 papers for inclusion in the proceedings The papers have been organized in topical sections as follows Foundations of computer science frontiers in education novel studies and assessment results frontiers in education's tools frontiers in education student retention teaching and learning methods curriculum design and related issues and poster position papers

**Indian Computer Science (CS) & Information Technology (IT) Academic Reform (Past) Activism Blog Book** Ravi S. Iyer, 2020-03-10 Main author Ravi S Iyer created the eklavyasai.blogspot.com blog and used it from September 2011 to play a part time peaceful and amicable Indian Computer Science CS and Information Technology IT academic reform Internet based activist role His focus was on improving the practice of software development in Indian CS IT academia But he thought that it is such a vital part of the CS IT field and that it is so poor in many parts of Indian CS IT academia that he referred to his efforts as Indian CS IT academic reform activism Other contributors to the blog have given their views on certain topics Main work period has been from 2011 to 2014 with a little work later off on The main author is no longer active in this area This book is aimed at helping other activists involved in improving the practice of software development in Indian CS and IT academia to get the views of the blog in a convenient form The book may also be of interest to similar activists in other countries About the author Main author Ravi S Iyer is a Physics graduate from Ruia college University of Bombay Mumbai who was industry trained and later self taught in software development He worked in the international software industry US Europe Japan South Korea India etc developing systems as well as applications software CS IT for over 18 years after which he retired from commercial work Later mainly as a visiting faculty he offered free service of teaching programming courses lab courses and being a technical consultant for student projects in a Maths Computer Science department of a deemed university in India for 9 years

**Innovations Through Information Technology** Information Resources Management Association. International Conference, 2004-01-01 Innovations Through Information Technology aims to provide a collection of unique perspectives on the issues surrounding the management of information technology in organizations around the world and the ways in which these issues are addressed This valuable book is a compilation of features including the latest research in the area of IT utilization and management in addition to being a valuable source in support of teaching and research agendas

Service-Learning in the Computer and Information Sciences Brian A. Nejme, 2012-06-07 Offering a truly global perspective this book serves as a road map for service learning partnerships between information science and nonprofit

organizations It introduces for the first time an essential framework for service learning in CIS addressing both the challenges and opportunities of this approach for all stakeholders involved faculty students and community nonprofit organizations NPOs both domestic and abroad This volume outlines numerous examples of successful programs from around the world presenting practical working models for implementing joint projects between NPOs and academia The 22nd International Conference on Information Technology-New Generations (ITNG 2025) Shahram Latifi,2025-05-08 This book covers technical contributions that have been submitted reviewed and presented at the 22nd annual event of International conference on Information Technology New Generations ITNG The applications of advanced information technology to such domains as astronomy biology education geosciences security and health care are among topics of relevance to ITNG Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help the information readily flow to the user are of special interest Machine Learning Robotics High Performance Computing and Innovative Methods of Computing are examples of related topics The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services: Air Force American Council on Education,1984 Engineering Mathematics-II: For WBUT Babu Ram,2012

**Information Management and Big Data** Juan Antonio Lossio-Ventura,Eduardo Ceh-Varela,Eduardo Díaz,Freddy Paz Espinoza,Claude Tadonki,Hugo Alatrasta-Salas,2025-06-18 This book constitutes the proceedings of the 11th Annual International Conference on Information Management and Big Data SIMBig 2024 held in Ilo Peru during November 20 22 2024 The 27 full papers and 1 short paper included in this book were carefully reviewed and selected from 102 submissions They were organized in topical sections as follows machine learning and deep learning natural language processing mining of social networks and online platforms and signal and image processing *Research in Education* ,1974 *Resources in Education* ,2000 **Handbook of Research on Organizational Transformations through Big Data Analytics** Tavana, Madjid,Puranam, Kartikeya,2014-11-30 Big data analytics utilizes a wide range of software and analytical tools to provide immediate relevant information for efficient decision making Companies are recognizing the immense potential of BDA but ensuring the data is appropriate and error free is the largest hurdle in implementing BDA applications The Handbook of Research on Organizational Transformations through Big Data Analytics not only catalogues the existing platforms and technologies it explores new trends within the field of big data analytics BDA Containing new and existing research materials and insights on the various approaches to BDA this publication is intended for researchers IT professionals and CIOs interested in the best ways to implement BDA applications and technologies *The Indian Institutes of Technology* Seethalakshmi Srilal, *Proceedings* American Society for Engineering Education. Conference,1995 **United States Air Force Academy** United States Air Force Academy, **Emerging Computation and Information teChnologies for Education** Elwin Mao,Linli Xu,Wenya Tian,2012-04-17 The 2012 International Conference on Emerging Computation and Information teChnologies for Education ECICE 2012 was held on Jan 15 16 2012 Hangzhou China The main results of the

conference are presented in this proceedings book of carefully reviewed and accepted paper addressing the hottest issues in emerging computation and information technologies used for education The volume covers a wide series of topics in the area including Computer Assisted Education Educational Information Systems Web based Learning etc

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gauge referred to a 30 in hg barometer when 60 f seal water is used for higher temperature water the vacuum will not be as great by permission from nash engineering co

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