Theory of Computer Science

2·30 to 5·30

Note. (1) Question No I 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
               $S \rightarrow (S)|SS|$ ^   (10)

4. (a) State and explain pumping Lemma for regular languages. (10)
       Using Pumping lemma, show that following grammars are not regular.
               (i) $L = \{1^n | n$ 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

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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   *A Textbook of Engineering Drawing (In First Angle Projection)* R.K.Dhawan,2012-07 this book includes Geometrical Drawing Computer Aided Drafting in First Angle Projection Useful for the students of B E B Tech for different Technological Universities of India Covers all the topics of engineering drawing with simple explanation   **English For Engineering Students, 2E** Veena Selvam,2009-11-01 Language unlike other engineering subjects is more a skill that has to be practiced constantly With this in mind English for Engineering Students has been written to help building engineers use technical English appropriately in all situations The objective of this book is to facilitate the practice of the four major study skills Listening Speaking Reading and Writing along with their sub skills The book is divided into 4 units of 3 chapters each Each unit is accompanied by a revision exercise At the end of the book are the supplementary tasks along with keys an appendix of phonetic symbols and their use and a model question paper   **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   *Developing a Keyword Extractor and Document Classifier: Emerging Research and Opportunities* Paul, Dimple Valayil,2021-01-08 The main problems that prevent fast and high quality document processing in electronic document management systems are insufficient and unstructured information information redundancy and the presence of large amounts of undesirable user information The human factor has a significant impact on the efficiency of document search An average user is not aware of the advanced option of a query language and uses typical queries Development of a specialized software toolkit intended for information systems and electronic document management systems can be an effective solution of the tasks listed above Such toolkits should be based on the means and methods of automatic keyword extraction and text classification The categorization or classification of texts into predefined categories has witnessed a booming interest in the last 10 years due to the increased availability of documents in digital form and the ensuing need to organize them Thus research on keyword extraction advancements in the field and possible future

solutions is of great importance in current times Developing a Keyword Extractor and Document Classifier Emerging Research and Opportunities presents an information extraction mechanism that can process many kinds of inputs realize the type of text and understand the percentage of the keywords that has to be stored This mechanism then supports information extraction and information categorization mechanisms This module is used to support a text summarization mechanism which leads with the help of the keyword extraction module to text categorization It employs lexical and information retrieval techniques to extract phrases from the document text that are likely to characterize it and determines the category of the retrieved text to present a summary to the users This book is ideal for practitioners stakeholders researchers academicians and students who are interested in the development of a new keyword extractor and document classifier method *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 **Computer Aided Systems Theory - EUROCAST 2007** Roberto Moreno Díaz,Franz Pichler,Alexis Quesada Arencibia,2007-11-16 This book constitutes the thoroughly refereed post proceedings of the 11th International Conference on Computer Aided Systems Theory EUROCAST 2007 Coverage in the 144 revised full papers presented includes formal approaches computation and simulation in modeling biological systems intelligent information processing heuristic problem solving signal processing architectures robotics and robotic soccer cybercars and intelligent vehicles and artificial intelligence components **Service-Learning in the Computer and Information Sciences** Brian A. Nejmeh,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

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