

X10320

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Question Paper Code : X 10320

*B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020 AND
APRIL/MAY 2021*

Fifth/Sixth Semester

Computer Science and Engineering CS

8591 – COMPUTER NETWORKS

*(Common to : Computer and Communication Engineering/Information
Technology) (Regulations 2017)*

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. *How are the subgroups of OSI model layers segregated by their functions ?*
2. *Differentiate Circuit-switched networks and Packet-switched networks.*
3. *List out the functions of the Data Link Layer.*
4. *Find the Hamming distance between two pair of code words : A*
= 01011
B = 11110
5. *Why IPv6 is preferred over IPv4 ?*
6. *Find the class of each address.*
a) 11000001 10000011 00011011 11111111
b) 252.5.15.111
7. *How congestion occurs in a network ?*
8. *What happens in the three way handshaking between any two devices ?*
9. *Define anonymous FTP.*
10. *What is the difference between IMAP and POP ?*

Anna University Wireless Network Question Paper

**Kumar, K. Dinesh,Varadarajan,
Vijayakumar,Nasser, Nidal,Poluru,
Ravi Kumar**

Anna University Wireless Network Question Paper:

Ad Hoc and Wireless Sensor Networks Nami Susan Kurian, About Book The inspiration behind this book is when I felt that there is need of simplified book on Ad Hoc and Sensor Networks that can help the students to understand the concepts in an easy manner This book is written as per the latest Anna University syllabi Regulation 2017 This book contains five units which covers the whole syllabus Unit 1 Deals with the fundamentals of Ad hoc network and Sensor Network It also describes the different routing protocols for Ad Hoc Wireless Networks Unit 2 Provides an in depth knowledge on sensor network architecture and design issues Unit 3 Understands the MAC layer and transport layer issues It also describes the protocols used in MAC later and transport layer Unit 4 Illustrates the security issues possible in Ad hoc and Sensor networks Unit 5 Provides an exposure to mote programming platforms and tools At the end of every unit possible short answer and long answer questions are also given This book will be beneficial for the Engineering students as it helps in easy understanding of the concepts in best and easier way

Technology Road Mapping for Quantum Computing and Engineering Mishra, Brojo Kishore, 2022-03-25 Quantum computing is radically different from the conventional approach of transforming bit strings from one set of zeros and ones to another With quantum computing everything changes The physics used to understand bits of information and the devices that manipulate them are vastly different Quantum engineering is a revolutionary approach to quantum technology Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts engineering technologies operations and applications from the basics to future advancements Covering topics such as machine learning quantum software technology and technology road mapping this book is an excellent resource for data scientists engineers students and professors of higher education computer scientists researchers and academicians

Advancements and Innovations in Wireless Communications and Network Technologies Bartolacci, Michael, Powell, Steven R., 2012-10-31 The constant advancements of wireless technologies have influenced modern business practices as well as social interaction As a result the continuing study of communications and networking is important to better understand existing modes of information transfer as well as developing and managing new methods Advancements and Innovations in Wireless Communications and Network Technologies is a collection of research and case studies which tackle the issues advancements and techniques on wireless communications and network technologies This book offers expansive knowledge and different perspectives useful for researchers and students alike

Future Wireless Networks and Information Systems Ying Zhang, 2012-02-01 This volume contains revised and extended research articles written by prominent researchers participating in ICFWI 2011 conference The 2011 International Conference on Future Wireless Networks and Information Systems ICFWI 2011 has been held on November 30 December 1 2011 Macao China Topics covered include Wireless Information Networks Wireless Networking Technologies Mobile Software and Services intelligent computing network management power engineering control engineering Signal and Image

Processing Machine Learning Control Systems and Applications The book will offer the states of arts of tremendous advances in Wireless Networks and Information Systems and also serve as an excellent reference work for researchers and graduate students working on Wireless Networks and Information Systems

International Conference on Computer Applications 2012 :: Volume 04 Kokula Krishna Hari K, 14th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2019) Francisco Martínez Álvarez, Alicia Troncoso Lora, José António Sáez Muñoz, Héctor Quintián, Emilio Corchado, 2019-04-30 This book includes 57 papers presented at the SOCO 2019 conference held in the historic city of Seville Spain in May 2019 Soft computing represents a set of computational techniques in machine learning computer science and various engineering disciplines which investigate simulate and analyze very complex issues and phenomena The selection of papers was extremely rigorous in order to maintain the high quality of the conference which featured a number of special sessions including sessions on Soft Computing Methods in Manufacturing and Management Systems Soft Computing Applications in the Field of Industrial and Environmental Enterprises Optimization Modeling and Control by Soft Computing Techniques and Soft Computing in Aerospace Mechanical and Civil Engineering New methods and Industrial Applications

Challenges and Solutions for Sustainable Smart City Development R. Maheswar, M. Balasaraswathi, Ravi Rastogi, A. Sampathkumar, G. R. Kanagachidambaresan, 2021-05-22 This book discusses advances in smart and sustainable development of smart environments The authors discuss the challenges faced in developing sustainable smart applications and provide potential solutions The solutions are aimed at improving reliability and security with the goal of affordability safety and durability Topics include health care applications sustainable smart transportation systems intelligent sustainable wearable electronics and sustainable smart building and alert systems Authors are from both industry and academia and present research from around the world Addresses problems and solutions for sustainable development of smart cities Includes applications such as healthcare transportation wearables security and more Relevant for scientist and researchers working on real time smart city development

Smart Spaces and Next Generation Wired/Wireless Networking Sergey Balandin, Roman Dunaytsev, Yevgeni Koucheryavy, 2010-08-26 This book constitutes the refereed proceedings of the 10th International Conference on Next Generation Teletraffic and Wired Wireless Advanced Networking NEW2AN 2010 held in conjunction with the Third Conference on Smart Spaces ruSMART 2009 in St Petersburg Russia in August 2010 The 27 revised NEW2AN full papers are organized in topical sections on performance evaluation performance modeling delay disruption tolerant networking and overlay systems integrated wireless networks resource management and multimedia communications The 14 revised ruSMART full papers are about smart spaces use cases smart M3 platform and smart spaces solutions

Wired/Wireless Internet Communications Xavier Masip-Bruin, Dominique Verchere, Vassilis Tsaoussidis, Marcelo Yannuzzi, 2011-06-27 This book constitutes the proceedings of the 9th IFIP TC 6 International Conference on Wired Wireless Internet Communications WWIC 2011 held in Vilanova i la Geltrú Spain in June

2011 The 26 contributions included were carefully reviewed and selected from 50 submissions In addition the book contains 15 invited papers The contributions are structured in topical sections on mobility and LTE networks performance and simulation analysis adaptive approaches to guarantee E2E network services energy efficiency and cooperation in wireless networks transmission and management quality through routing naming and control wireless multi hop communications challenges in the future internet and emerging contributions

Neural Networks for Natural Language Processing S., Sumathi,M., Janani,2019-11-29 Information in today s advancing world is rapidly expanding and becoming widely available This eruption of data has made handling it a daunting and time consuming task Natural language processing NLP is a method that applies linguistics and algorithms to large amounts of this data to make it more valuable NLP improves the interaction between humans and computers yet there remains a lack of research that focuses on the practical implementations of this trending approach Neural Networks for Natural Language Processing is a collection of innovative research on the methods and applications of linguistic information processing and its computational properties This publication will support readers with performing sentence classification and language generation using neural networks apply deep learning models to solve machine translation and conversation problems and apply deep structured semantic models on information retrieval and natural language applications While highlighting topics including deep learning query entity recognition and information retrieval this book is ideally designed for research and development professionals IT specialists industrialists technology developers data analysts data scientists academics researchers and students seeking current research on the fundamental concepts and techniques of natural language processing

Energy Harvesting Trends for Low Power Compact Electronic Devices Anveshkumar Nella,Anirban Bhowmick,Chandan Kumar,Maheswar Rajagopal,2023-09-29 This book focuses on the numerous energy harvesting techniques and their system implementation towards the fulfilment of energy requirements in compact electronic devices These cover a wide range of applications in portable devices bio medical services agriculture needs mechanical systems sensor networks automobiles food sector home appliances industry needs etc The authors detail energy harvesting methods using the latest technologies in acoustics bio chemical thermal artificial light fluid flow vibrations EM energy RF energy piezoelectric electrostatic photovoltaic thermoelectric hybrid harvesting ultrasonic infrared light wind and solar The book is intended for researchers academics professionals and students in energy harvesting

Proceedings of the Eleventh National Conference on Communications,2005 International Joint Conference SOCO'18-CISIS'18-ICEUTE'18 Manuel Graña,José Manuel López-Guede,Oier Etxaniz,Álvaro Herrero,José Antonio Sáez,Héctor Quintián,Emilio Corchado,2018-06-06 This book includes papers presented at SOCO 2018 CISIS 2018 and ICEUTE 2018 all held in the beautiful and historic city of San Sebastian Spain in June 2018 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze highly complex issues and phenomena After a rigorous peer

review process the 13th SOCO 2018 International Program Committee selected 41 papers with a special emphasis on optimization modeling and control using soft computing techniques and soft computing applications in the field of industrial and environmental enterprises The aim of the 11th CISIS 2018 conference was to offer a meeting opportunity for academic and industry researchers from the vast areas of computational intelligence information security and data mining The need for intelligent flexible behaviour by large complex systems especially in mission critical domains was the catalyst for the overall event Eight of the papers included in the book were selected by the CISIS 2018 International Program Committee The International Program Committee of ICEUTE 2018 selected 11 papers for inclusion in these conference proceedings

MOBILE COMPUTING Dr.J.Martin Sahayaraj,Dr. N.Dhasarathan,Dr. N.S.S Ramachandra Murthy,Dr. S.R.Boselin Prabhu ,Dr. J. Suresh,2019-09-12 Unit 1 Covers Mobile Computing Mobile Computing wireless Networking Mobile Computing Applications Characteristics of Mobile computing Structure of Mobile Computing Application MAC Protocols Wireless MAC Issues Fixed Assignment Schemes Random Assignment Schemes Reservation Based Schemes Unit 2 Covers Overview of Mobile IP Features of Mobile IP Key Mechanism in Mobile IP route Optimization Overview of TCP IP Architecture of TCP IP Adaptation of TCP Window Improvement in TCP Performance Unit 3 Covers Global System for Mobile Communication GSM General Packet Radio Service GPRS Universal Mobile Telecommunication System UMTS Unit 4 Covers Ad Hoc Basic Concepts Characteristics Applications Design Issues Routing Essential of Traditional Routing Protocols Popular Routing Protocols Vehicular Ad Hoc networks VANET MANET Vs VANET Security Unit 5 Covers Mobile Device Operating Systems Special Constrains Requirements Commercial Mobile Operating Systems Software Development Kit IOS Android BlackBerry Windows Phone M Commerce Structure Pros Cons Mobile Payment System Security Issues **Intelligent Quality of**

Service Technologies and Network Management: Models for Enhancing Communication Bhattacharjose,

Pattarasinee,2010-04-30 This book quality of service in organizations offering fundamental knowledge on the subject describing the significance of network management and the integration of knowledge to demonstrate how network management is related to QoS in real applications Provided by publisher International Conference on Computer Applications - Networking ,

Advances in Grid and Pervasive Computing Christophe Cérin,Kuan-Ching Li,2007-06-21 This book constitutes the refereed proceedings of the Second International Conference on Grid and Pervasive Computing GPC 2007 held in Paris France in May 2007 It covers all aspects of grid and pervasive computing and focuses on topics such as cluster computing grid computing semantic Web and semantic grid service oriented computing peer to peer computing mobile computing as well as grid and pervasive related applications *Computational Intelligence for Green Cloud Computing and Digital Waste Management* Kumar, K. Dinesh,Varadarajan, Vijayakumar,Nasser, Nidal,Poluru, Ravi

Kumar,2024-02-27 In the digital age the relentless growth of data centers and cloud computing has given rise to a pressing dilemma The power consumption of these facilities is spiraling out of control emitting massive amounts of carbon dioxide and

contributing to the ever increasing threat of global warming Studies show that data centers alone are responsible for nearly eighty million metric tons of CO2 emissions worldwide and this figure is poised to skyrocket to a staggering 8000 TWh by 2030 unless we revolutionize our approach to computing resource management The root of this problem lies in inefficient resource allocation within cloud environments as service providers often over provision computing resources to avoid Service Level Agreement SLA violations leading to both underutilization of resources and a significant increase in energy consumption Computational Intelligence for Green Cloud Computing and Digital Waste Management stands as a beacon of hope in the face of the environmental and technological challenges we face It introduces the concept of green computing dedicated to creating an eco friendly computing environment The book explores innovative intelligent resource management methods that can significantly reduce the power consumption of data centers From machine learning and deep learning solutions to green virtualization technologies this comprehensive guide explores innovative approaches to address the pressing challenges of green computing Whether you are an educator teaching about green computing an environmentalist seeking sustainability solutions an industry professional navigating the digital landscape a resolute researcher or simply someone intrigued by the intersection of technology and sustainability this book offers an indispensable resource

Self-Organizing Systems Thrasyvoulos Spyropoulos, Karin Anna Hummel, 2009-11-30 This book constitutes the refereed proceedings of the 4th International Workshop on Self Organizing Systems IWSOS 2009 held in Zurich Switzerland in December 2009 The 14 revised full papers and 13 revised short papers presented were carefully selected from the 34 full and 27 short paper submissions The papers are organized in topical sections on ad hoc and sensor networks services storage and internet routing peer to peer systems theory and general approaches overlay networks peer to peer systems and internet routing wireless networks and network topics Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014 Suresh Chandra Satapathy, Bhabendra Narayan Biswal, Siba K. Udgata, J.K. Mandal, 2014-10-17 This volume contains 95 papers presented at FICTA 2014 Third International Conference on Frontiers in Intelligent Computing Theory and Applications The conference was held during 14 15 November 2014 at Bhubaneswar Odisha India This volume contains papers mainly focused on Data Warehousing and Mining Machine Learning Mobile and Ubiquitous Computing AI E commerce Distributed Computing and Soft Computing Evolutionary Computing Bio inspired Computing and its Applications

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