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Question Paper Code : 50559

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2024.

Fifth/Sixth Semester

Electronics and Communication Engineering

CEC 345 — OPTICAL COMMUNICATION AND NETWORKS

(Common to : Computer and Communication Engineering/ Electronics and Telecommunication Engineering)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the advantages of single mode fiber over multimode fiber?
2. Compare group velocity with phase velocity.
3. What are the causes for attenuation in optical fiber? Also, recall the expression for determining attenuation.
4. What is Rayleigh scattering?
5. What is the threshold condition for LASER oscillation?
6. What is meant by population inversion?
7. Define optical return loss.
8. Outline the need for fiber attenuation measurements techniques.
9. Define optical network node and switching elements.
10. Mention the techniques used in processing the header in packet switching network.

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Brendan G. Carr



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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.

Computer Fundamentals Manish Soni, 2024-11-13 In the vast landscape of modern technology, understanding the fundamentals of computing is akin to possessing a master key that unlocks a world of possibilities. This book, dedicated to the exploration of computer fundamentals, serves as your gateway to comprehending the intricacies of these ubiquitous machines. Knowledge of computer fundamentals is not a mere luxury; it is an indispensable tool in the arsenal of modern life. Whether you're a seasoned professional seeking to deepen your understanding or a curious novice embarking on your first foray into the realm of computing, this book is tailored to meet your needs. As your companion in this voyage of discovery, we offer not just knowledge but guidance. Whether you seek to bolster your technical prowess, embark on a career in technology, or simply satiate your intellectual curiosity, this book stands ready to accompany you every step of the way. Computers have revolutionised the way we live, work, and communicate. From smartphones and tablets to sophisticated data centres, the impact of computing is felt in virtually every aspect of modern society. A solid grasp of computer fundamentals not only empowers you to navigate this digital landscape with confidence but also opens doors to countless opportunities in various fields. In this book, we embark on a journey to explore the fundamental principles that underpin the world of computing. Starting with a historical overview of the evolution of computers, we delve into the essential components of computer hardware and software, covering topics such as data representation, operating systems, networking, logic gates, and many more. Now the question comes: Who Should Read This Book? The readership of a Computer Fundamental book extends beyond mere enthusiasts; it caters to a diverse array of individuals whose pursuits intersect with the realms of technology and information. Targeting a broad spectrum of learners, this tome is indispensable for aspiring technocrats, ambitious students, enterprising professionals, and curious minds alike. Students traversing the hallowed halls of academia find solace in its pages as it encapsulates the requisite knowledge for mastering computer science fundamentals. Armed with this arsenal of understanding, they tackle assignments, ace examinations, and prepare themselves for the rigors of a burgeoning tech industry where innovation and adaptability reign supreme. Seasoned professionals entrenched in the trenches of corporate warfare

unearth in its depths a trove of wisdom to augment their skill set From IT consultants grappling with complex infrastructure dilemmas to cybersecurity experts fortifying digital fortresses against insidious threats this text serves as a beacon of enlightenment illuminating pathways to professional growth and excellence **Resources in Education** ,1993-04 **The Future of Outer Space Law** Anna Marie Brennan,2025-06-27 This book identifies and discusses problems and opportunities for the future theory and practice of outer space law The corpus of outer space law including the Outer Space Treaty 1967 has faced multiple challenges and critiques In recent times these have included advances in technology the militarisation of outer space space debris and geopolitics The prominent and emerging contributors to this collection draw on diverse research frameworks to discuss proposals for the future of outer space law and policy These include addressing regulatory gaps and under examined and emerging areas of the law but also beyond the Outer Space Treaty especially related to potential extraterrestrial settlements satellites technology self defence self determination and the environment The book discusses the tensions between universalism and localisation as well as the regionalisation of outer space law and policy and how these approaches might adapt to create a dynamic space industry for the future This book is both practical and theoretical in scope and will be of interest to academics researchers and students It will also be of interest to international organisations diplomats and other government officials and policymakers **Science** ,1892 Vols for 1911 13 contain the Proceedings of the Helminthological Society of Washington ISSN 0018 0120 1st 15th meeting **In His Milieu** Amy Golahny,Mia M. Mochizuki,Lisa Vergara,2006 Gathered in honor of John Michael Montias 1928 2005 the foremost scholar on Johannes Vermeer and a pioneer in the study of the socioeconomic dimensions of art the essays in In His Milieu are an essential contribution to the study of the social functions of making collecting displaying and donating art The nearly forty essays here by all internationally recognized experts in the fields of art history and the economics of art are especially revealing about the Renaissance and Baroque eras and present new material on such artists as Rembrandt Van Eyck Rubens and da Vinci *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis,Marquis Who's Who,2007-12 *Proceedings of the ... Annual ACM-SIAM Symposium on Discrete Algorithms* ,1999 *Working Mother* ,2000-10 The magazine that helps career moms balance their personal and professional lives *Working Mother* ,2000-10 The magazine that helps career moms balance their personal and professional lives **Bibliographic Guide to Psychology** New York Public Library. Research Libraries,1998 **Library & Information Science Abstracts** ,1989 **Canadian Periodical Index** ,1965 *"The" Illustrated London News* ,1851 **Herald and Presbyter** ,1922 **Whitaker's Books in Print** ,1998 **Nature** Sir Norman Lockyer,1939 **Current Index to Journals in Education** ,1987 *The Christian Advocate* ,1909 *Forthcoming Books* Rose Arny,1993-12

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