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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 x 2 = 20 marks)

- What are the advantages of single mode fiber over multimode fiber?
- 2. Comparé group velocity with phase velocity.
- 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?
- Define optical return loss.
- 8. Outline the need for fiber attenuation measurements techniques.
- Define optical network node and switching elements.
- Mention the techniques used in processing the header in packet switching network.

# **Anna University Optical Communication Question Paper**

**BM King** 

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Fundamental of Microprocessors & its Application A.K.Chhabra, 2005 World first Microprocessor INTEL 4004 a 4 bit Microprocessor came in 1971 forming the series of first generation microprocessor Science then with more and advancement in technology there have been five Generations of Microprocessors However the 8085 an 8 bit Microprocessor is still the most popular Microprocessor The present book provied a simple explanation about the Microprocessor its programming and interfaceing The book contains the description mainly of the 8 bit programmable Interrupt Interval Timer Counter 8253 Programmable communication Interface 8251 USART 8251A and INTEL 8212 8155 8256 8755 and 8279 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

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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 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 Who's Who in Science and Engineering 2008-2009 Who's Who Marquis, Marquis Who's Evck Rubens and da Vinci West of Center Elissa Auther, Adam Lerner, 2012 Recovering the art and lifestyle of the counterculture in Who,2007-12 the American West in the 1960s and 70s Commerce Business Daily ,2000-03 **The Journal of Education** Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1876 **The Cinema in Flux** Lenny Lipton, 2021-04-07 The first of its kind this book traces the evolution of motion picture technology in its entirety Beginning with Huygens magic lantern and ending in the current electronic era it explains cinema s scientific foundations and the development of parallel enabling technologies alongside the lives of the innovators Product development issues business and marketplace factors the interaction of aesthetic and technological demands and the patent system all play key roles in the tale. The topics are covered sequentially with detailed discussion of the transition from the magic lantern to Edison's invention of the 35mm camera the development of the celluloid cinema and the transition from celluloid to digital Unique and essential reading from a lifetime innovator in the field of cinema technology this engaging and well illustrated book will appeal to anyone interested in the history and science of cinema from movie buffs to academics and members of the motion picture industry Proceedings of the ... Annual ACM-SIAM Symposium on Discrete Algorithms ,1999 Herald and Presbyter ,1922 Working Mother **Resources in Education** ,2000-10 The magazine that helps career moms balance their personal and professional lives **Government Reports Announcements & Index**, 1996 .1982

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