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Seventh Semester B.E. Degree Examination, June/July 2017

Optical Fiber Communication

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART - A

1.
 - a. Summarize the inherent advantages of optical fiber over conventional copper cables. (06 Marks)
 - b. Describe with neat diagram different types of optical fiber waveguides. Using ray theory, explain the propagation of light inside the fiber. (08 Marks)
 - c. A silica optical fiber with a core diameter large enough to be considered by ray theory analysis has a core refractive index of 1.5. A light ray is incident at the core-cladding interface with a critical angle of 78.5° . Estimate:
 - i) Refractive index of cladding
 - ii) Numerical aperture
 - iii) The acceptance angle in air for the fiber (06 Marks)
2.
 - a. Illustrate the different types of scattering losses in optical fiber with suitable equations. (08 Marks)
 - b. Explain what is meant by the critical bending radius for an optical fiber. Write equation of critical radius of curvature for multimode and single mode fibers. (06 Marks)
 - c. A multimode fiber with a core refractive index of 1.5, a relative refractive index difference of 3% and an operating wavelength of $0.82 \mu\text{m}$. Estimate the critical radius of curvature at which large bending losses occur. (06 Marks)
3.
 - a. Draw and explain the cross-sectional view of a typical AlGaAs double heterojunction LED, along with the energy diagram. (08 Marks)
 - b. Sketch and explain the GaAs homojunction injection laser with a Fabry-Perot cavity. (06 Marks)
 - c. A planar LED is fabricated from Gallium Arsenide which has a refractive index of 3.6,
 - i) Calculate the optical power emitted into air as a percentage of the internal optical power for the device when the transmission factor at the crystal-air interface is 0.68.
 - ii) When the optical power generated internally is 50% of the electric power, determine the external power efficiency. (06 Marks)
4.
 - a. With the aid of simple sketches, outline optical fiber coupler types and their functions. (08 Marks)
 - b. Discuss different types of fiber misalignment and the factors which causes the losses due to those misalignment. (06 Marks)
 - c. A single mode fiber has the following parameters:
 - Normalised frequency (V) = 2.40
 - Core refractive index (n_1) = 1.46
 - Core diameter ($2a$) = $8 \mu\text{m}$
 - Numerical aperture (NA) = 0.1
 - Normalised spot size (w) = $3.12 \mu\text{m}$.
 Estimate the total insertion loss of a fiber joint with a lateral misalignment (Y) of $1 \mu\text{m}$ and an angular misalignment (θ) of 1° . (06 Marks)

Optical Fiber Communication Question Papers

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sensor systems Throughout the book an attempt has been made to cover every important point related to this field from the fundamental concepts to the recent advancements as well as the future scope of the technical development in this exciting field Primarily designed for a course of optoelectronics optoelectronics and fiber optics optical fiber sensor at both undergraduate and postgraduate levels in electrical and electronics engineering electronics and communication engineering electronics and instrumentation engineering and applied physics it would also be appreciated by practising engineers and scientists who want to update the information related to the latest developments in this field Key Features Provides an enormous information regarding the optical interactions processes devices and various other related topics to enlarge the scope of the book Includes an in depth presentation of important derivations to enhance the level of understanding Incorporates a considerable number of worked out numericals to reinforce the understanding of the concepts Includes many pedagogical features such as chapterwise summary exercises including probable problems and question bank and relevant references to provide a sound knowledge of various processes and systems

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(Question Bank) Mocktime Publication, Punjab GK General Knowledge Question Bank [Fiber-Optic Communication Systems](#) Govind P. Agrawal, 2012-02-23 This book provides a comprehensive account of fiber optic communication systems The 3rd edition of this book is used worldwide as a textbook in many universities This 4th edition incorporates recent advances that have occurred in particular two new chapters One deals with the advanced modulation formats such as DPSK QPSK and QAM that are increasingly being used for improving spectral efficiency of WDM lightwave systems The second chapter focuses on new techniques such as all optical regeneration that are under development and likely to be used in future communication systems All other chapters are updated as well [CUET PG Electronics, Communication & Information Engg. - Question Bank \(2400 MCQs Chapterwise\)](#) Mocktime Publication, 2400 MCQs CUET PG Question Bank Electronics Communication Information Engg CUEG PG Previous Papers CUET PG Syllabus CUET PG Exam Pattern

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1. Understanding the eBook Optical Fiber Communication Question Papers
 - The Rise of Digital Reading Optical Fiber Communication Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Optical Fiber Communication Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Optical Fiber Communication Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optical Fiber Communication Question Papers
 - Personalized Recommendations
 - Optical Fiber Communication Question Papers User Reviews and Ratings
 - Optical Fiber Communication Question Papers and Bestseller Lists
5. Accessing Optical Fiber Communication Question Papers Free and Paid eBooks

- Optical Fiber Communication Question Papers Public Domain eBooks
- Optical Fiber Communication Question Papers eBook Subscription Services
- Optical Fiber Communication Question Papers Budget-Friendly Options
- 6. Navigating Optical Fiber Communication Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Optical Fiber Communication Question Papers Compatibility with Devices
 - Optical Fiber Communication Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optical Fiber Communication Question Papers
 - Highlighting and Note-Taking Optical Fiber Communication Question Papers
 - Interactive Elements Optical Fiber Communication Question Papers
- 8. Staying Engaged with Optical Fiber Communication Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optical Fiber Communication Question Papers
- 9. Balancing eBooks and Physical Books Optical Fiber Communication Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Optical Fiber Communication Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Optical Fiber Communication Question Papers
 - Setting Reading Goals Optical Fiber Communication Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Optical Fiber Communication Question Papers
 - Fact-Checking eBook Content of Optical Fiber Communication Question Papers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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