

30/11/2012

2nd SEM-12 (E-31)

Con. 9147-12.

B.E (EATC) Sem VIII (R)
Optical Fiber Communication
(REVISED COURSE)

KR-4695

(3 Hours)

[Total Marks : 100

- N. B. :** (1) Question No. 1 is compulsory.
(2) Attempt any four questions out of remaining six questions.
(3) Figures to the right indicate full marks.

1. (a) What are the advantages of optical fiber Communication? 20
(b) Explain Bandwidth distance product.
(c) What are Linearly Polarized modes ?
(d) Compare direct band and indirect band semi conductors.
2. (a) Derive the expression for numerical aperture of a step-index fiber. What will 10
happen to N. A. if Cladding is removed ?
(b) Compare step index and graded index fiber. 10
3. (a) Starting from Maxwell's equation, derive the wave equation for step index fiber. 10
(b) Explain the significance of V-number. Derive the expression for number of guided 10
modes in graded index fiber.
4. (a) What do you understand by intramodal dispersion ? Derive the expression for 10
material dispersion.
(b) What are the reasons for signal attenuation in an optical fiber ? 10
5. (a) Give the structure of a surface emitting LED. Compare with an edge 10
emitting LED.
(b) Explain Avalanche Photodiode with proper structure and electric field. What is 10
multiplication factor ?
6. (a) What are splices ? Explain different types of splices. 10
(b) Explain Double Crucible method of fiber fabrication. 10
7. Write short notes on any two :— 20
(a) Linearly Polarized modes
(b) OTDR
(c) Link Power Budget.

Optical Fiber Communication Question Papers

Lynn D. Hutcheson, Stephen C. Mettler



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Summaries of Papers Presented at the Optical Fiber Communication Conference ... ,2005

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Selected Papers on Fiber Optic Communications Lynn D. Hutcheson, Stephen C. Mettler, 1993 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

1986 Optical Fiber Communication Conference, Technical Digest ,1986 Optical Fiber Communication ,1982
Journal of Optical Communications ,1984 Sixth Topical Meeting on Optical Fiber Communication, 28 February-2 March 1983, New Orleans ,1983 Conference on Optical Fiber Communication, 11-13 February, 1985 ; Third International Conference on Optical Fiber Sensors, 13-14 February, 1985, San Diego, California ,1985 Selected Papers on Single-mode Optical Fibers Alexander Brozeit, R. S. Sirohi, 1994 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics

1996 Optical Fiber Communication Conference ,1996 Coherent Lightwave Communications Paul S. Henry, Stewart D. Personick, 1990
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