

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.

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