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

Optical Fiber Communication

Time: 3 hrs.

Max. Marks: LOO

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

PART - A

- Summarize the inherent advantages of optical fiber over conventional copper cables.
 - b. Describe with nest diagram different types of optical fiber waveguides. Using ray theory, explain the propagation of light inside the fiber.
 - 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 incidented at the core-cladding interface with a critical angle of 78.5°. Estimate:
 - Refractive index of cladding
 - Numerical aperture
 - iii) The acceptance angle in air for the fiber

(006 NT aurics):

- Illustrate the different types of scattering losses in optical fiber with suitable equations.
 - 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.
 - 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 µm. Estimate the critical radius of curvature at which large bending losses occur. 4006 N.T. medicals
- 3 Draw and explain the cross-sectional view of a typical AlGaAs double beteroignation LED. along with the energy diagram. COS Milaries)
 - Sketch and explain the GaAs homojunction injection laser with a Fabry-Perot cavity.
 - 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. 096 Minuks)
- With the aid of simple sketches, outline optical fiber coupler types and their functions.
 - (08 Number) Discuss different types of fiber misalignment and the factors which causes the losses due to those misalignment. (10% Nettaintes)
 - c. A single mode fiber has the following parameters:

Normalised frequency (V) = 2.40

Core refractive index $(n_i) = 1.46$

Core diameter (2a) = 8µm.

Numerical aperture (NA) = 0.1

Normalised spot size $(\omega) = 3.12 \mu m$.

Estimate the total insertion loss of a fiber joint with a lateral misalignment (Y) of 1 um and an angular misalignment (0) of 1". 606 Marris to

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Marcel A. Müller

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