CBCS SCHEME

DSN PETER

17EC82

Fiber Optics and Networks

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- a. With help of neat diagram, explain the main block of an optical fiber communication.
 - Explain the advantages, disadvantages and applications of OFC.

(10 Marks) (10 Marks)

or

- With a nest diagram, discuss the structure of single mode and multimode step index fiber with advantages of each type. (10 Marks)
 - b. Calculate the R.I of core and cladding materials of an fiber whose NA = 0.35 and Δ = 0.001.
 - A step-index multimode fiber with NA = 0.20 supports 1000 modes at 850nm. What is diameter of core? How many does the fiber supports at 1320nm. (96 Marks)

Module-2

a. Explain different absorption mechanism in optical fiber.

(10 Miartes)

b. Silica has an estimated fictive temperature of 1400K with an ISO thermal compressibility of 7 × 10⁻¹¹ m²N⁻¹. RI and photo elastic coefficient for silica are 1.46 and 0.286 respectively. Determine attenuation in dB/km due to Rayleigh scattering in silica at λ = 0.65, 1 and 1.3km, K = Boltzman constant = 1.381 × 10⁻²³JK⁻¹. (10 Marks)

OBL

4 a. Discuss inter modal dispersion with necessary equations.

and the same of the same

(10 Marks) (10 Marks)

Explain Macro and Micro bending losses with a neat diagram

Module-3

- 5 a Draw the diagram of a typical GaAiAS double hetro structure LED along with energy band diagram and refractive index profile and explain. (10 Marks)
 - Discuss internal quantum efficiency and power in detail.

DEC.

6 a. Explain Fabry-Perot resonator cavity of laser with a neat diagram.

(10 Marks)

(10 Marks)

- Explain the following:
 Spontaneous emission
 - ii) Stimulated emission
 - iii) Quantum efficiency.

(1966 Defaurthor)

c. For an alloy Int 34 Guan Ason Pass used in LED find wavelength emitted by the source.
(64 Marks)

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