

## Important Questions and Answers for Optical Communication

### Part A

1. Compare step index and graded index fibers.

**Step Index Fiber:** Characterized by a uniform core refractive index and a sharp change in refractive index between the core and cladding. **Graded Index Fiber:** Has a core refractive index that gradually decreases from the center towards the cladding, reducing modal dispersion.

2. Define linearly polarized mode.

A mode of light propagation where the electric field vector remains confined to a single plane along the direction of propagation.

3. List the factors that cause Rayleigh scattering in optical fibers.

Rayleigh scattering is caused by microscopic variations in the material density and composition of the optical fiber, leading to scattering of light.

4. Differentiate material dispersion and waveguide dispersion.

**Material Dispersion:** Caused by the wavelength dependence of the refractive index of the core material. **Waveguide Dispersion:** Results from the dependence of the light propagation constant on the fiber structure and the wavelength.

5. Define quantum efficiency of LED.

The ratio of the number of photons emitted to the number of electrons passing through the LED.

6. Brief about the temperature effects in optical sources.

Temperature variations can affect the output wavelength, efficiency, and threshold current of optical sources like LEDs and laser diodes.

# Optical Communication Short Questions And Answers

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