

PART B — (5 × 13 = 65 marks)

11. (a) Illustrate the concept of total internal reflection and polarization components of light with necessary expressions. (13)

Or

- (b) Write about the Construction, mode field diameter and Propagation Modes of a single mode fiber. (13)
12. (a) Discuss about a non-linear scattering process that is associated with the generation of an acoustic phonon and compare it with a similar process that generates a high frequency optical phonon. (13)

Or

- (b) Explain how intersymbol interference affects the bandwidth in optical fiber communication. (13)
13. (a) With neat schematics. Explain about structure of a surface emitting Light Emitting Diode (LED). (13)

Or

- (b) Compare and contrast PIN photodetector with Avalanche photo diodes. (13)
14. (a) Write detailed notes on the following:
- (i) Various noise sources in the detection mechanism (7)
  - (ii) Front end amplifier (6)

Or

- (b) Write in detail about how tapering schemes are used to improve optical source-to-fiber coupling efficiency. (13)
15. (a) Explain about SONET/SDH transmission formats and speed, SONET/SDH rings and SONET/SDH Networks. (13)

Or

- (b) Derive total system rise time for determining the dispersion limitation of an optical fiber link.

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