

13. (a) (i) What are the characteristics required for an optical source? With help of neat diagram, describe the operation of surface emitting LED. (8)

(ii) A double heterojunction InGaAsP LED emitting at a peak wavelength of 1310 nm has radiative and non radiative recombination times of 25 and 90 ns respectively. The drive current is 35 mA.

(1) Find the internal quantum efficiency and the internal power level. (3)

(2) If the refractive index of the light source material is $n = 3.6$, find the power emitted from the device. (2)

Or

(b) (i) Describe the term External quantum efficiency relating to LASER. (8)

(ii) A GaAs optical source with refractive index of 3.6 is coupled to a silica fiber that has a refractive index of 1.48. What is the power loss between source and the fiber? (5)

14. (a) (i) Explain in detail about the front end optical amplifiers. (7)

(ii) Estimate the terms:- Quantum limit and Probability of Error with respect to a receiver with typical values. (6)

Or

(b) Demonstrate the following in detail :

(i) Fiber refractive index profile measurement. (7)

(ii) Fiber cutoff wavelength measurement (6)

15. (a) Explain SONET layers and its frame structure with diagram. (13)

Or

(b) (i) Define and explain the principle of WDM networks. (7)

(ii) State the nonlinear effects on optical network performance. (6)

PART C — (1 x 15 = 15 marks)

16. (a) When a current pulse is applied to a laser diode, the injected carrier pair density n within the recombination region of width ' d ' changes with time according to the relationship.

$$\frac{dn}{dt} = \frac{J}{qd} - \frac{n}{\tau}$$

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N Colangelo

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Technology

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Manish Soni,2024-11-13 In the vast landscape of modern technology understanding the fundamentals of computing is akin to possessing a master key that unlocks a world of possibilities This book dedicated to the exploration of computer

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