

- Q.4 An optical light detector converts
- a) Electrical signal into optical signal
 - b) Optical signal into electrical
 - c) Optical Signal into light signal
 - d) None

- Q.5 In a multi mode of optical fiber _____
- a) Bandwidth is lower (100MHz)
 - b) short communication
 - c) V is greater than 2.402
 - d) all of these

- Q.6 The spectral width in LED in comparison of LASER is _____
- a) Broad
 - b) Narrow
 - c) very narrow
 - d) none of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Write the full form LASER
- Q.8 Write the full form LED

(2)

221054

- Q.9 Write the full form EDFA
- Q.10 What is acceptance angle in optical fiber?
- Q.11 What is the main disadvantage of optical fiber cable?
- Q.12 V - number stands for _____.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Write the comparison between EDFA and Raman amplifier.
- Q.14 Write the characteristics of PIN.
- Q.15 Write a short note on optical amplifier.
- Q.16 Write the characteristics of LED.
- Q.17 Write the comparison between single mode fiber and multimode fiber.
- Q.18 Write the advantages of optical fiber communication.
- Q.19 Write the short note on electromagnetic spectrum.
- Q.20 Write the short note on bending losses in optical fiber.
- Q.21 What are advantages of semiconductor amplifier in optical communication.
- Q.22 Write a short note on noise in detectors.

(3)

221054