

S. B. Roll. No.....

OPTICAL FIBER COMMUNICATION
5th Exam/ECE/2617/Jun'2021
(For 2018 Batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. What do you understand by terms Numerical Aperture and Acceptance Angle?
- ii. Explain Structure of Optical Fiber with the help of diagram.
- iii. Explain Bending losses in fibers.
- iv. What are the advantages and disadvantages of LED?
- v. Write Characteristics of optical detectors.
- vi. Explain Fiber optic communication System with the help of diagram.
- vii. What are the advantages of optical fiber communication?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. What are the types of optical fibers? Compare step index fiber with graded index fiber.
- b. What are the different types of Losses in optical fiber? Explain Briefly
- c. Explain the working of LED with diagram. Find difference between LED and laser.
- d. What are optical amplifiers and its types? Explain SOA in detail.