

S.B. Roll No.....

OPTICAL FIBER COMMUNICATION
5th Exam/ECE/2617/Jan'2022
(For 2018 Batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Explain absorption losses in OFC.
- ii. Write a short note on total internal reflection.
- iii. Explain different advantages of OFC system.
- iv. Explain working principle of led as light source.
- v. Explain different types of optical fibers.
- vi. What is the significance of numerical aperture?
- vii. What are the features of an ideal light source?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Explain the block diagram of optical fiber communication system in detail.
- b. What is splicing? Explain its different types.
- c. What is dispersion? Explain its different types.
- d. What are optical detectors? Explain working principle of photo diode optical detector.