

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Bachelor of Electronics and Telecommunication Engineering

Regular T.Y.B.Tech. ESE (A.Y. 2023-24) Sem.V Nov.2023

V SEMESTER (2021 BATCH)

201ETL304-06B-Fiber Optic Communication

Duration : [11:00 AM - 01:00 PM]

Date : 29 Nov, 2023

Day : Wednesday

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

(1.1) Explain Block diagram of optical fiber communication system [6.0]

CO :- 1

Blooms Taxonomy :- Analyze

(1.2) Explain the types of Modes of optical fiber [7.0]

CO :- 1

Blooms Taxonomy :- Analyze

(1.3) Explain any two losses occurred in OFC [7.0]

CO :- 2

Blooms Taxonomy :- Understand

(Q2) All Questions are compulsory [10.0]

(2.1) Explain working principle of LED [4.0]

CO :- 2

Blooms Taxonomy :- Understand

OR [2.1 / 2.2]

(2.2) Explain working principle of LASER diode. [4.0]

CO :- 2

Blooms Taxonomy :- Understand

(2.3) Explain working of Fabry Perot LASER [6.0]

(Q3) All Questions are compulsory [10.0]

(3.1) Explain characteristics of Photodiode. [3.0]

CO :- 3
Blooms Taxonomy :- Understand

(3.2) Explain the working principle of PIN and Avalanche Photo diode [7.0]

CO :- 3
Blooms Taxonomy :- Understand

OR [3.2 / 3.3]

(3.3) Explain the terms detector Noise, detector Response Time. [7.0]

(Q4) **Attempt any two out of three questions** [10.0]

(4.1) Explain the Performance of EDFA amplifier [5.0]

CO :- 3
Blooms Taxonomy :- Understand

(4.2) Write a short note on WDM [5.0]

CO :- 3
Blooms Taxonomy :- Understand

(4.3) Explain the Passive Components in Optical Communication. [5.0]

CO :- 3
Blooms Taxonomy :- Understand
