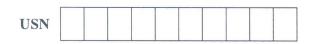
1	4E	00	24
- 1	4 H.	()	2.4



Second Semester M.Tech. Degree Examination, June/July 2018 **Optical Communication and Networking**

Time: 3 hrs.

Max. Marks:100

		Note: Answer any FIVE full questions.	
1	a.	Explain the non linear effects based on (i) Effective length and area (ii) Stimular scattering (iii) Propagation in a nonlinear medium.	ted Raman (12 Marks)
	b.	Explain term solitons.	(08 Marks)
2	a. b.	Explain the practical direct detection receiver. Explain how probability density functions for the observed photo current.	(08 Marks) (12 Marks)
3	a. b.	Discuss the each impairment results in a power penalty to the system. Explain the different configuration used in amplifiers.	(10 Marks) (10 Marks)
4	a.	Explain the variety of physical layer are used for SONET/SDH depending on the and distances.	e bit rates (10 Marks)
200	b	Explain different types of SONET equipment deployed in a network.	(10 Marks)
25	a.	Explain how three different light path topologies that can be deployed over a topologies.	fiber ring (10 Marks)
	b.	Explain the statistical traffic models can be used in solving the dimensioning problem.	
6	a. b.	Explain the key attributes of managing light path service and interfacing. Explain the terms interms of performance and Fault management (i) The transparency (ii) Alarm management.	(10 Marks) impact of (10 Marks)
7	a. b.	Explain the functions of ATM. Describe the ATM adaptation layers of AAL-1, AAL-5.	(10 Marks) (10 Marks)
8	a. b. c. d. e.	Write short note on (any four): Four wave mixing. Couplers. Multiplexers. Interferometers. Circulators.	
	f.	*****	(20 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.