Code No: D6505R09JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech II - Semester Examinations, March/April 2011
OPTICAL NETWORKS
(WIRELESS AND MOBILE COMMUNICATIONS)

	Time: 3hours Max. Marks: (60
	Answer any five questions	
All questions carry equal marks		
4		
1.	What is the importance / use of SONET/SDH in optical communications? Di detail about SONET / SDH and give their transmission formats. Discu	
	SONET/SDH Rings.	[12]
	Solver, and it import	[]
2.	Discuss the following in detail:	
	a) Add/Drop Multiplexers.	
	b) Wave length routing Networks.	[6+6]
3.	Discuss in detail about various layers with in Optical layer and also discuss their services.	
5.	Discuss in detail about various layers which in Optical layer and also discuss their s	[12]
4.	Discuss in detail of protection schemes (Protection in SONET/SDH and IP Netwo	
		[12]
5.	Write short notes on the following:	
	a) Photonic Packet Switching.	[(),()]
	b) Burst Switching.	[6+6]
6.	What is Multiplexing? Discuss in detail about Wavelength division multiplexing.	
		[12]
7. a)	Discuss in detail about Optical Safety.	
b)	Explain in detail about Fiber To The Curb (FTTC).	[6+6]
8.	Discuss in detail about the following storage Area Networks:	
0.	a) ESCON.	
	b) HIPPI.	
	c) Gigabit Ethernet.	[12]
