				GUNI	JPUR	- 7650)22						
F	Registration No:	- Sangaro										M.TE	ЕСН
	Number of Page	· ·											
Total	M.TECH 1	ST SEMES	TER R	EGUL	AR E	EXAM	IINA'	TION	S. DE	CEMI	BER 20	18	
		-		PTICA					,				
		Bra	nch: E		•			CPE10)32				
Time	: 3 Hours	(Regulations 2018) Max Marks : 70 Que							iestion	stion Code: RD18002066			
111110	··· ·· IIIII		Р	ART-A				arks)	ν.		Couci	11000	2000
1. A	nswer the following	ng questions			- (,					
	Specify the Prot			s of SC	NET								
	List any 2 featur												
c.	Define MAN an	d WDM.		-									
d	Mention the diff	erences bet	ween ci	ircuit s	witch	ing an	d pac	ket sv	vitchin	g.			
e.	\mathcal{C}												
f.			-		optic	cal fibe	ers?						
g													
h.						ment?							
i.	What are differe	• 1			'								
j.	What is path pro	nection swit	icning?	•									
		Р	PART-E	3 (5 X	10=5	0 Mar	ks)						
		Answer a		•				owing	•				
	Explain the princip	-	tion of	WDM	in opt	tical co	ommi	ınicat	ion wi	th its a	dvantage	es	[5]
	and disadvantages.												
	Illustrate the role of	-		-	-	er (OA	(DM	in pro	ovidin	g cost e	effective	;	[5]
1	means of handling	traffic in op	otical no	etwork	S.								
3 a)	Discuss different C)ADM arch	itecture	s with	neat (diaora	m						[5]
	Draw the block dia					_		d expl	ain its	functi	oning		[5]
0)	Dian the block an	·gram or or	saacast	and se	10001	10112	1,1 611	a onp		1011011	J		[0]
4. a)	Explain the differe	nt multiplex	king tec	hnique	es in o	ptical	netwo	orks.					[5]
b)	Discuss cost trade	offs by cons	idering	a PW	DM ri	ing arc	hitect	ture.					[5]
,	Explain light path	1 05	•	/ L									[5]
b)	What is dispersion	and how do	oes it li	mit the	band	width	?						[5]
6 a)	Evaloia vaidiaostis	anal nath arr	itahad		and in	. tha n	mataat	ion o	e con	БТ / С 1	DII		[5]
	Explain unidirection Discuss the protec	-		_		i me p	TOTEC	11011 0	SON	L1 / 3	νп.		[5]
U)	Discuss the protect	uon m ir w	iui aii e	лашрі	ᠸ.								[5]
7. a)	What are the differ	rent types of	f topolo	gies us	sed in	optica	al nety	works	?				[5]
	Explain the working												[5]

b) Couplers.

8. Write short notes on

a) Wavelength Converters

[5]

[5]