VIII - EL OFC

6/6/16

QP Code: 31544

(3 Hours)

[Total Marks: 80

	Question No-1 is Compulsory. Attempt any Three (03) Questions from remaining Five (05) Questions. Assume suitable data where ever necessary.	7
N.B.		
1)	Question No-1 is Compulsory.	
2)	Attempt any Three (03) Questions from remaining Five (05) Questions.	
3)	Assume suitable data where ever necessary.	Marks.
Q. No.	C. C. Harriage Occaptions (Amyst)	
Q.I	Attempt the following Questions(any4): a) Total Internal Reflection at the outer edge of the core-cladding?	5
	a) 10121 Internal Reflection at the during of the state difference between LP&	5
	b) What do you mean by LP (Linearly Polarized) wave , state difference of the circularly polarized wave?	
	I I I I T T C Outland communication	5
	C C C C C C C C C C C C C C C C C C C	5
	A ALL V Las Campia and discharge	5
		5
	f) What is Optical Transport network (OTN) Explain Working of PIN photo diode Advantages of APD Wr. to Gain, & Responsively of	8
Q.2(a)	diode	
0.4(1)	STATE OF THE PARTY	6
Q.2(b)	For GIF prove that $M = \frac{\alpha}{(\alpha T^2)} a^2 k^2 n_1^2 \Delta$	
0.2(0)	Explain with neat sketch the two categories of front end amplifiers ,Discuss the possible sources	6
Q.2(c)	of noise in ontical fiber Receiver	
0.3(0)	and the control of the control of the convention of the various factors	8
Q.3(a)	responsible for ontical signal attenuation & Dispersion	
Q.3(b)	Prophete dispersion losses in an optical fiber How transmission rate calculated in dispersion	6
Q.3(c)	a section with a section of the control of the cont	6
Q.5(c)	complete and connectors	
Q.4(a)	- a construction of whote detector Derive an expression for the	8
Q.4(n)	remonstrate of Intrinsic photo detector	2
Q.4(b)	Syntain with block schematic of optical fiber soliton transmission system with optical soliton	6
2.1(0)	andres (Scallicion of two solutions (ii) Four stable solutions at safe separation distance.	
Q.4(c)	Difference between following term in context with optical communication(1)Optical Source	6
2.7(0)	&Ontical Detector (ii)Coherent and Non coherent optical transmission	2
Q.5(a)	Describe the structure and operation of OTDR. Explain loss measurement by OTDR	8
Q.5(b)	Explain the term protocol and Internet protocol(IP), using OSI reference model discuss	6
	invalamentation aspect of the (i)SONET(ii)DWDM	
Q.5(c)	- to the same to the same partormance measurement datameter	0
	of user interest.	
Q.6	Write short note on(any4):	20
	(a) Optical Coupler and Application	
	(b) SNR Modifications of SNR for photodiode	
	(c)Optical safety & Service Interface	
	(d)Optical Switches	
	(e)SONET/SDH	
	O	