B. Tech. 7th Semester (ECE) Examination, December–2015

SATELLITE COMMUNICATION

Paper-ECE-403-F

		r aper-	PCE-403	7-I'		
Time allowed: 3 hours]			[Maximum marks : 100			
Not	_	uestion No. 1 is co uestion from each	-	y and atten	npt any one	
1.	Wri	te short notes on th	e follow	lowing: 2		
	(a)	G/T ratio	(b)	FDM syst	ems	
	(c)	Eclipse effect	(d)	BDS.		
		Sec	tion–A			
2.	(a)	Write various communication.	Applic	cations of	satellite 10	
	(b)	Explain various I	Earth Stat	ion paramet	ers. 10	
3.	(a)	What is the difference between Active and passive satellite. 10				
	(b)	What are advanta	ages of sa	tellite comn	nunication. 10	
		Sec	tion-B			
4.	(a)	What are inter modulation products and their effects in FM/FDM systems. 10				
	(b)	Explain elem	ients o	f digital	satellite	

communication system.

10

		(2)	24441			
5.	(a)	Explain single channel per carrier system	ms. 10			
	(b)	Describe Time division multiplexing.	10			
		Section-C				
6.	Des	Describe TDMA-frame structure and TDMA Burst				
	struc	20				
7.	(a)	Explain orbital parameters in detail.	10			
	(b)	What is satellite stabilization?	10			
		Section-D				
8.	What are special purpose communication satellite?					
	Exp	20				
9.	(a)	llite link				
		transmitter and receiver.	10			
	(b)	Explain satellite communication with				
		fiber optic communication.	10			