B.E EXTC Sem VIII CBGS

Duration: 3 Hours

	Marks: 60	
Note: 1) 2) 3)	Q.1 is compulsory. Attempt any three questions from the remaining five questions. Assume Suitable data wherever necessary	8
QI. At	tempt any FOUR	20
a) b) c) d) e)	Explain Launching of Geostationary satellites Explain design considerations of Earth station State and explain Kepler's Laws Explain different orbital parameters Differentiate window and frame organization	
Q2. a) 1	What is EIRP, Discuss importance of [G/T] ratio. Calculate Overall [C/N] for a satell ink, if [C/N] up link =25dB and [C/N] downlink=20dB and intermodulation noise =13	lite 8dB 10
b) I	Explain TT & C subsystem. Explain role of multi-tone frequency in tracking system.	10
Q3 a) I	Describe different stabilization technique	10
	What are different types of lasers used for satellite communication? Explain acquisition link model for optical communication	on 10
Q4 a) V	With the help of block diagram explain transmit receive type of earth station	10
b) I	Draw and explain satellite network architecture	10
Q5 a) E:	xplain SPADE system and SCPC of FDMA	10
b) W	which types of antennas used in satellite communication. Explain any one in detail.	10
a)	te short note on any TWO Onboard connectivity with transparent processing VSAT and GPS	20
	Reliability and space Qualification	