QP Code: 629201

(3 Hours)

[ Total Marks: 100

WIRD 180%	ANI	2.		
		MAY	[TURN OVER	•
		(b)	Discuss different launching mechanism of satellite in GEOstationary orbit	0
	5.	(a)	What are look angles? An earthstation is located at latitude 30°S and longitude 130°E, calculate antenna look angles for satellite at 156°S?	0 1
		(b)		10
	4.	(a)	Explain different types of double reflector antennas used in satellite 1	10
		(b)	Compare only stabilization and 2 GV 1111	10
	3.	(a)	What is telemetry, tracking and command sub system? And explain it's working with necessary block diagrams?	10
		(b)	Drown block discourse Co.	10
	2.	(a)	Discuss design criteria and problems encounter by communication satellite and mention different sub systems of satellite?	10
		(e)	What are the differences between GEOSynchronous GEOstationary orbits?	5
		(c) (d)	is preferred in satellite applications? Compare LEO, MEO, GEO satellites? Briefly explain sun transit outage?	5
		(a) (b)	State and explain Keiper's laws? And show that a <sub>GSO</sub> = 42,000 km.  What is meant by polarization of satellite signals and why circular polarization	5
	1.	An	swer the following (any four)	5
			<ul><li>Assume suitable Data Wherever necessary and justify the same.</li><li>Draw neat sketches/diagrams wherever Necessary.</li></ul>	^
			2) Attempt any four questions from question No 2 To 7.	
	N.	B. :	1) Question No 1 is compulsory.	

6.	(a)	A satellite circuit has th	ne following parameters:
----	-----	----------------------------	--------------------------

	Uplink, decilogs	Downlink, decilogs	
[EIRP]	54	34	
[G/T]	0	17	
FSL]	200	198	
RFL]	2	2	
[AA]	0.5	0.5	multiple car
[AML]	0.5	0.5	, RA
perations'		ssion point? And what is	multiple cared the significant
,	e conversion Transpond E system	lers O	

wind to be a known a king to have the state of the state