## ME (EXTC) sem II (Chol ce based) and half 2017 Elec I. Satellite Networking

[Time: Three Hours]

28/11/17

Q.P. Code :10799

			,			[ Marks:80]
	N.B:	a	Please check whether you ha	ave got the right question paper.		
	IN.B:	1. 2.	Question no. 1 is compulsory;	: attempt any 3 questions out of &	maining 5 que	estions.
		3.	Assume suitable data wherev	er necessary and state it clearly.		
						The factor
Q.1		ollow	ing questions (Total – 20 Mark			
	A. What are the a	idvan	itages and disadvantages of not	ar and inclined orbits?		(05 Marks)
	o. Explain the des	ט נופונ	Onsiderations for a catallita	- 92 1 A. B. W. W. W. W. C. A. V. A. V. A. V.		(05 Marks)
	D. How are TV hr	2 01 h	vission and Network Managem	ent Centre in a satellite network.	10 49 19 W	(05 Marks)
	as a section of the pro-	Jauce	ast signals relayed to earth stati	ons by satellite.		(05 Marks)
Q.2		llow	ing questions (Total – 20 Marks			2.
	A. Explain three a	xis m	ethod of stabilization of a catall	1. 2. C. S.		*
	B. For a satellite of	lown	link, the saturation FIRP is 22 5	dRIMECULATOR IN COLUMN	od margine	(10 Marks)
		, -	ar ar aradion 10/11/15/5/ 5-08/K		tation	(10 Marks)
	Assuming an ot	itput	BO of 6dB applied, what is the	new value of [C/No].		
Q.3]	Attempt the fo	llowi	ing questions (Total – 20 Marks		Ser.	
	A. Discuss the diff	erent	wavs in which the satallito rose	(2000 10 10 10 10 10 10 10 10 10 10 10 10		
	B. Derive an expre	ssior	n for the daily average duration	of a catallito in column		(10 Marks)
			A 1 1 2 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(10 Marks)
Q.4	Attempt the fol	lowi	ng questions (Total – 20 Marks			*5
	A. Explain in detail	the	RIDIUM network	12. 12. 12. 12. 12. 12. 12. 12. 12.		(10 Marks)
	C. Explain ISDN ov	noor	n takèn by satellité help in detec	tion of minerals in moon soil?		(10 Marks) (05 Marks)
	C. Explain 13DN OV	er sai	tellite.		-	(05 Marks)
Q.5	Attempt the fol	lowi	ng questions (Total – 20 Marks)			
	A. Explain satellite	laser	beam acquisition techniques	\$46.56.50 S		
	B. Which compone	nts c	of a satellite are most likely to fa	ill? How the expected lifetime of a		(10 Marks)
						(05 Marks)
	C. Determine the n	naxin	num possible longitudinal separ	ation which can exist between a ge	eostationany	(OF Martin)
120	AND WAY WAY TO THE WAY		' YOU OIL WHILE IN ALL HALL HAD HAD Y	of cight communicati	50 K	(05 Marks)
30	Angle of elevation	n or	the earth station antenna is 5°.	State also the latitude of the earth	n station.	
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67.4	A. Write a short no	te or	DTH service provided by catalli			
3	B. Differentiate bet	weer	ng questions (Total – 20 Marks) nDTH service provided by satelli n single hop and multi hop satel	lite connections		(05 Marks)
	C. Explain various e	arth	observation applications using	satellites		(05 Marks)
	D. Write a short no	te TÎ	&C unit of satellite.			(05 Marks)
27		80				(05 Marks)
37. 4	12 - 1 Tale 1 1 1 1 1 2 2	1 mm/	No. W. S. C. S. C.			