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M. Tech. 1st Semester (ECE) CBCS Scheme Examination, December-2019 SATELLITE AND SPACE COMMUNICATION Paper-MTECE21C2

Time allowed: 3 hours]

[Maximum marks: 100

Note: Question No. 1 is compulsory. Attempt any one question from each section.

- 1. What do you mean by geo-synchronous satellite?
 - (b) Define Active and Passive Satellite.
 - (c) Define Attitude and eclipses.
 - What do you mean by GPS systems? $4 \times 5 = 20$

Section-A

Explain satellite frequency allocation and band spectrum 2. in detail.

or

What are different applications of satellite? Discuss in 3. detail.

Section-B

Explain in delay transponders, Earth stations with 4. 20 antennas and earth coverage,

or

Derive the up link and down link equations in satellite 20 5. communication.

	Section	on-C	
Write short note on :			20
(i)	Free Space loss		
(ii)	Telemetry		
	o	τ	
	lain MSK in detail w	ith diagram.	20
	Section	on–D	
Wri	te short note on :	90 × 514	20
(i)	TELSAT		
(ii)	INSAT		

OF

Explain different multiplexing techniques with diagram.

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