9. a) Explain the calculation of Azimuth angle and elevation angle.
7
b) Write a short note on orbital perturbations.
OR
c) Explain the launch vehicle selection factors.
d) Explain the procedures for placing satellites in geostationary orbit.
10

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10.	a)	Explain earth station transmitter, receiver and antenna in detail. OR	15
	b)	Write a short note on telemetry and monitoring system of satellite.	7
	c)	Write a short note on reliability of satellite subsystem. Derive the expression for reliability of a device.	8
11.	a)	Briefly explain DAMA.	5
	b)	Explain about TDMA implementation in satellite communication. OR	10
	c)	Explain in detail about direct sequence spread spectrum transmission and reception.	15
12.	a)	Derive link equation.	8
	b)	Explain system noise temperature in detail. OR	7
	c)	Explain receiver of GPS with block diagram.	7
	d)	Explain GPS position location procedure.	8