

Code No: **R42043 R10**

Set No. 1

IV B.Tech II Semester Supplementary Examinations, April - 2018 SATELLITE COMMUNICATIONS

(Electronics and Communication Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1	a)	Mention the advantage of digital satellite communication over its analog counter part.	[8]
	b)	Write a detailed summary about the satellite communication in the 21 st century.	[7]
2		Discuss in detail the orbital effect in satellite communication system performance.	[15]
3	a)b)	explains the electrical power distribution in a satellite.	[8] [7]
4	a) b)	Explain the design of uplinking. Explain the effect of noise and interference on the performance of satellites.	[8] [7]
5	a) b)	Explain the demand access multiple access (DAMA). Explain the spread spectrum transmission and reception.	[8] [7]
6		Discuss the primary power test methods.	[15]
7	a) b)	Explain system consideration factors. Explain satellite based store-and-forward messages	[7] [8]
8	a) b)	Write a short on differential GPS. Explain how signal is acquired in satellite system and GPS signal levels.	[7] [8]