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Code No: A6503

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I Semester Examinations, March/April-2011 MOBILE COMMUNICATIONS (WIRELESS AND MOBILE COMMUNICATIONS)

Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

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1.a) b)	Explain satellite system architecture . Describe the Single & Triple coverage of earth by satellites in detail.	[12]
2.a) b)	Discuss the effects of eclipse on satellites in detail. Explain spectrum forecast methodology with a neat flow chart.	[12]
3.a) b)	Explain various band propagation measurement technique for a main char Discuss mobile radio channels.	nnel. [12]
4.a) b)	Write short notes on orbital debris in non geostationary satellites. What are the advantages of spot beams?	[12]
5.a) b)	Explain the inclined & Hybrid constellations. What is Regional coverage? Discuss Maritime & Aeronautical channels.	[12]
6.	Find E_b/N_0 for the communication M.SAT CDMA networks assuming channels.	AWGN [12]
7.a) b)	List the advantages of LEO & disadvantages of MEU systems. Explain the linear, rectangular, circular apertures of antennas used in communication. Write short notes on:	satellite [12]
a) b)	MEO Systems Radio Link Analysis.	[12]
