Subject Code: H4503/R13

M. Tech –II Semester Regular/ Supply Examinations, October, 2015

WIRELESS COMMUNICATION AND NETWORKS

(Common to SSP, DIP, CE&SP, IP, C&SP, SP&C, M&CE, DECS, E&CE, CS and DECE)

Time: 3 Hours **Max Marks: 60**

Answer any FIVE questions

All questions carry EQUAL marks

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1	a.	Mention the significance of frequency reuse in cellular networks. Explain about frequency reuse strategies.	6M
	b.	Distinguish between fixed channel assignment and dynamic channel assignment	6M
2	a.	From the signal coverage point of you explain ground incident angle, elevation angle, ground reflection and reflection point? incident angle, elevation angle, ground reflection and reflection point?	6M
	b.	If h1 = 50mt, h2 = 3mt, d = 5Km, H = 100m use approximate method find incident angle, elevation angle, ground reflection and reflection point?	6M
3	a.	How the received signal strength is predicted using the free space propagation model? Explain	6M
	b.	Name some of the outdoor propagation models?	6M
4	a.	Compare coherence bandwidth and coherence time.	6M
	b.	What is the need for link calculation? Explain with suitable example	6M
5	a.	Explain the Fundamental concept of of Equalization	6M
	b.	Explain Maximum Likelihood Sequence Estimation (MLSE) Equalizer	6M
6	a.	What are the Practical Space Diversity Consideration?	6M
	b.	Explain how Inter Symbol Interference, and cochannel interference is caused and how they are eliminated.	6M
7	a.	What are the Advantages and disadvantages of Wireless Local Area Networks	6M
	b.	Explain, When does a WLAN become a personal area network (PAN)?	6M
8		Write short notes on the following a. IEEE 802.16 and its enhancements b. Blocking probability	6+6M

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