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M. Tech. II Semester Supplementary Examinations, May-2017 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 1. a Explain the concept of frequency reuse. 6M b Discuss bout the channel assignment strategies 6M 2. a Write in detail about three basic propagation mechanisms. 8M b If transmitterproduces 60w of power, and is applied to unity gain antenna with 4M960MHz carrier frequency find the received power in dBm at a free space distance of 100 m from the antenna what is P_r(10km).assume unity gain for the receiving antenna. 3. Explain ground reflection model in detail. 12M 4. a What are the factors influencing small scale fading. 4M b Explain Clarke's model for flat fading. 8M 5. a The Roll of equalization in mobile communication 4M b Explain training generic adaptive equalizer. 8M 6. Explain how RAKE receiver used in CDMA. 12M 7. a List the advantages and disadvantages of wireless LANS 4Mb Explain WLL technology 8M Write short notes on the following 8. 12M Adjacent channel interference. a. Indoor propagation losses. b. fading effects due to Doppler spread c. ****