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Code No: J4508/R16

## M. Tech. II Semester Regular Examinations, May-2017 WIRELESS COMMUNICATIONS AND NETWORKS

(Common to SSP (45), DIP (63), CE&SP (46), IP (-), C & SP (80), DECS (38), ECE (70), DECE (37), Communication Systems (47)

Time: 3 Hours Max. M			ırks: 60	
Answer any FIVE Questions All Questions Carry Equal Marks				
1.	a	Explain about i. TDMA ii. SDMA	6M	
	b	Consider a wired point-to-point network. List some performance measures.	6M	
2.	a	Explain how the <i>two-ray model</i> is used when a single ground reflection dominates the multipath effect.	6M	
	b	Draw the programming model for WAP and explain its functioning	6M	
3.	a b	What is the difference between frequency selective fading and flat fading? How the received signal strength is predicted using the free space propagation Model? Explain	6M 6M	
4.	a b	Explain the algorithms for adaptive equalization. What are the different receiver diversity combining techniques? Explain.	6M 6M	
5.	a b	What is the need for link calculation? Explain with suitable example Explain Maximum Likelihood Sequence Estimation (MLSE) Equalizer	6M 6M	
6.	a	Explain how Inter Symbol Interference, and cochannel interference is caused and how they are eliminated.	6M	
	b	What is small-scale fading? Write the factors influencing fading.	6M	
7.	a b	Draw and explain the various fields in a IEEE 802.11 MAC frame. List and explain L2CAP logical channels?	6M 6M	
8.	a b	Write short notes on Blocking probability Explain, When does a WLAN become a personal area network (PAN)? *****	6M 6M	