(S35)-2297



**1** | M-75160

Roll No. of Questions: 8		o. of Pages:01
M.Tech.(CSE Engg.)E-II (2018 Batch) (Sem.–1)  ADVANCED WIRELESS AND MOBILE NETWORKS  Subject Code: MTCS-110-18  Paper ID: [75160]		
Time: 3 Hrs. Max. Marks:		
INS 1. 2.	STRUCTIONS TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carries TWELVE marks.	
1.	What is multiplexing? Explain different types of multiplexing.	(12)
2.	Compare SDMA, TDMA, FDMA and CDMA.	(12)
3.	Explain the following:	(2×6=12)
	a. Functional Architecture of GSM.	
	b. Handover in cellular systems.	
4.	What are advantages and problems of forwarding mechanisms in regarding security, power saving, and network stability?	Bluetooth networks (12)
5.	With a focus on security, what are the problems of WLANs? What WLANs provide?	level of security can (12)
6.	Name the main differences between multi-hop ad-hoc networks What advantages do these ad-hoc networks offer?	and other networks.
7.	Write short notes on the following:	(3×4=12)
	a. Piconet	
	b. IEEE 802.11i	
	c. Fading effects in indoor and outdoor WLANs	
8.	What are the main problems of signal propagation? Why do radifollow a straight line? Why is reflection both useful and harmful?	o waves not always (12)