Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. - SEMESTER- II EXAMINATION - SUMMER 2016

Subject Code: 2724115 Subject Name: Ad Hoc and Wireless Sensor Network		Date: 27/05/2016		
Time: 10:30 AM to 1:00 PM Instructions:		Total Marks: 70		
	1. 2. 3.	1		
Q.1	(a)	Draw the network architecture of IEEE 802.11 WLAN components.	and explain its	07
	(b)	List applications of wireless sensor networks and explain any t	wo in detail.	07
Q.2	(a)	Discuss issues in designing a routing protocol for Ad Hoc wire	eless networks.	07
	(b)	Design goals of a transport layer protocol for Ad hoc wireless	networks.	07
	(b)	OR Explain the security in Ad Hoc wireless networks.		07
Q.3	(a)	What is Fading? Why Fading occurs? Explain various types of	Fading.	07
	(b)	What is PRNET? Draw and explain architecture of PRNET challenges of PRNET.	and also discuss	07
		OR		
Q.3	(a)	Discuss issues and challenges in providing QoS in Ad hoc wire	eless networks.	07
	(b)	Discuss the need for energy management in Ad hoc wireless no	etworks.	07
_	(a) (b)	Draw and explain basic architectural elements of WSNs. Write short note on flooding and it's variants OR		07 07
_	(a) (b)	Explain Low Energy Adaptive Clustering Hierarchy in detail. Write short note on S-MAC.		07 07
_	(a) (b)	Draw and explain software component of wireless sensor netwee Explain design issues of transport protocol for WSNs in detail. OR		07 07
_	(a) (b)	Discuss role of Magnet OS used in wireless sensor networks. Compare Ad Hoc Network and Wireless Sensor Network.		07 07
