## **GUJARAT TECHNOLOGICAL UNIVERSITY** ME - SEMESTER- II EXAMINATION – SUMMER 2016

Subject Code: 2724403Date: 24/05/2016Subject Name: Ad Hoc NetworksTime: 10:30 am - 01:00 pmInstructions:Total Marks: 70			•
	1.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	<b>(a)</b>	Draw Schematic of IEEE 802.11 (WLAN) Network Architecture and explain the services offered by it.	07
	<b>(b)</b>	Explain Hidden and Exposed terminal problems in Ad-Hoc Wireless networks.	07
Q.2	<b>(a)</b>	What is PRNET? Draw and explain architecture of PRNET and also discuss challenges of PRNET.	07
	<b>(b</b> )	Explain AODV Protocol for Ad-Hoc Wireless Network in Detail. OR	07
	<b>(b)</b>	Explain "Why does TCP not perform well in Ad-Hoc Wireless Networks?"	07
Q.3	(a) (b)	Explain CGSR Protocol for Ad-Hoc Wireless Network in Detail. Which are the Challenges and issues in providing Security in Ad-Hoc Network and Discuss network layer attacks in Ad-Hoc Wireless Networks.	07 07
		OR	
Q.3	(a)	Give the Classification of Multicast Routing Protocols and Explain MAODV Protocol in detail.	07
	<b>(b)</b>	Discuss Issues in Designing a Routing Protocol for Ad Hoc Wireless Networks.	07
Q.4	(a) (b)	Explain the MZRP (Multicast Zone Routing Protocol) in detail. Explain SWAN (Stateless Wireless Ad hoc Network) Model. OR	07 07
Q.4	(a) (b)	Explain key issues involved in QoS Routing in Ad-Hoc Networks. Explain battery scheduling techniques with required neat sketches.	07 07
Q.5	<b>(a)</b>	What is need of energy management in Ad-Hoc Wireless Networks? Explain in detail.	07
	<b>(b</b> )	Compare tree-based multicast routing protocols with mesh-based multicast routing protocols	07
0.5		OR Define Winsless Senson Network and Evaluin Chastered Senson Network	07
Q.5	(a) (b)	Define Wireless Sensor Network and Explain Clustered Sensor Network Architecture. Explain ATCP in detail.	07 07
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