Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-IV • EXAMINATION – SUMMER • 2014

Su	bject	Code: 742701 Date: 04-06-2014	
Sul	bject	Name: Wireless Sensor Network	
	-	2:30 pm - 05:00 pm Total Marks: 70	
Inst	ruction	ns:	
	1.	Attempt all questions.	
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Write short note on fundamentals of MAC protocols.	07
	(b)	What are the traditional transport control protocols? Why they are not suitable for Wireless sensor network?	07
Q.2	(a)	Explain Low-Energy Adaptive Clustering Hierarchy in detail.	07
	(b)	Write Short note on Application of Wireless sensor network. OR	07
	(b)	Write short note on wireless sensor standards.	07
Q.3	(a)	Explain following in reference to S-MAC:	07
		(i) Periodic Listen and Sleep Operations(ii) Schedule Selection and Coordination	
	(b)	Routing Challenges and Design Issues in Wireless Sensor Networks	07
		OR	
Q.3	(a)	Explain Access Control and Data Exchange in reference to S-MAC.	07
	(b)	Write short note on wireless sensor technology.	07
Q.4	(a)	Explain Sensor Protocols for Information via Negotiation	07
	(b)	Explain Directed Diffusion	07
		OR	
Q.4	(a)	Explain Power-Efficient Gathering in Sensor Information Systems.	07
	(b)	Explain Geographical Routing.	07
Q.5	(a)	Write short note on Operating Systems for Wireless Sensor Networks.	07
	(b)	Write short note on MiLAN and IrisNet	07
		OR	
Q.5	(a)	Discuss operating system design issues for Wireless sensor network.	07
	(b)	Write short note on Middleware Architecture for WSN.	07
