Seat No.: _		Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSITY		
	M.E -IV th SEMESTER-EXAMINATION – MAY- 2012			
Subject code: 742701			Date: 12/05/2012	
_		Name: Wireless Sensor Network		
Time: 02:30 pm – 05:00 pm Instructions:			Total Marks: 70	
Instr	cucti	ions:		
	Ma	empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q-1	(a)	Draw and explain software component of Wireless Sensor Network.	7	
	(b)	Explain challenges and limitation of Wireless Sensor Network.	7	
Q-2	(a)	Explain schedule based MAC protocol	7	
	(b)	Explain access control and data exchange in S-MAC. OR	7	
Q-2	(a)	Explain contention based MAC protocol.	7	
	(b)	Explain schedule selection and synchronization in S-MAC.	7	
Q-3	(a)	Explain different operating system for Wireless Sensor Network.	7	
	(b)	Explain hidden-node and exposed node scenario in WSN, How to reduce	7	
		effect of hidden node and exposed node scenario?		
		OR		
	(b)	Explain performance requirement of MAC protocol.	7	
Q-4	(a)	Explain routing challenges and design issues in WSNs.	7	
	(b)	Write short note on LEACH network model.	7	
0.4	(a)	OR	7	
Q-4	(a) (b)	Write short note on SPIN Explain flooding and its variants.	7 7	
	(6)	Dapinin nooding and its variants.	,	
Q-5	(a)	Write basic function of Middleware and explain general middleware	7	
	(1.)	architecture for WSNs.	_	
	(b)	TCP(RFC 793).	7	
Q-5	(a)	Why TCP and UDP unsuitable for implementation for WSNs?	7	
ν.	(b)	Explain: (i) MiLAN (ii) IrisNET.	7	
