Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-1 (NEW) EXAMINATION - WINTER 2018

Subject Code: 3710217 Subject Name: Wireless Sensor Networks			Date: 03/01/2019	
	U	2:30 PM To 05:00 PM Total Marks: 70		
Ins	tructio 1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	How security in WSN is managed? How to design good WSN? List out various parameters with justifications. Explain terms of WSN: (i) Data-Centric (ii) Energy Scavenging	07 07	
Q.2	(a) (b)	What is content based addressing? Explain. What is geographic addressing? How it is used in WSN? Explain with example. OR	07 07	
	(b)	Explain fundamental task of address management in WSN with example.	07	
Q.3	(a) (b)	Differentiate: WSN Routing with Adhoc Routing Explain Advantages of Localization and List out services of Localization. OR	07 07	
Q.3	(a) (b)	What are the major challenges and unique Constraints of wireless sensor networks? Explain in details. Explain issues in designing MAC protocols in WSN. Explain any One.	07 07	
Q.4	(a) (b)	Explain Any One Energy Efficient Unicast Routing protocol. Explain transport layer congestion and rate control in WSN.	07 07	
Q.4	(a) (b)	OR Explain various features of Location based routing with example. Explain FLAT routing protocols of WSN.	07 07	
Q.5	(a) (b)	What is TinyOS? Where it is used? Classify Sensor node hardware. List out various Sensors and it use in WSN applications. OR	07 07	
Q.5	(a) (b)	Explain time synchronization problems in WSN. List out Protocols for it. What are the characteristic requirements of Wireless sensor network? Why sensor networks are different?	07 07	
