Seat No.:	Enrolment No.
Deat 110	Lindinent 110.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME - SEMESTER-IV • EXAMINATION – SUMMER 2015

Subject Code: 742701 Date: 01/05/2015

Subject Name:	Wireless	Sensor	Netwo	rk
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Time: 2:30 pm to 5:00 pm Total Marks: 70

## **Instructions:**

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Differentiate C1WSN and C2WSN. Explain any one C2WSN	07	
	(b)	application in detail.  Compare MANET and WSN with their similarities and differences.	07	
Q.2	(a) (b)	Explain schedule selection and synchronization in SMAC.		
	(b)	OR Explain adaptive listening and message passing in SMAC.	07	
Q.3	(a) (b)	With neat sketch explain hardware components of WN. Explain Geographical Routing.		
Q.3	(a) (b)	OR With neat sketch explain software components of WN. Explain Low Energy Adaptive Clustering Technology.		
Q.4	(a) (b)	Explain SPIN protocol.  Explain design constraints or requirements for WSN and WNs.  OR	07 07	
Q.4	(a) (b)	Explain PEGASIS protocol.		
Q.5	(a) (b)	Explain TCP - RFC 793. Explain : (i) MiLAN (ii) IrisNET.	07 07	
	,	OR		
Q.5	(a) (b)	Explain UDP - RFC 768 What is meant by Middleware in sensor networks? Explain general middleware architecture for WSNs	07 07	

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