Soci	ıt No.	Enrolment No.	
Sea	u No	GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER IV (NEW) – • EXAMINATION – WINTER 2016	
Subject Code: 2742303 Date: 26/10/2 Subject Name: WIRELESS SENSOR NETWORK FOR IT		16	
Ti	me:0 tructio 1. 2.	2:30 pm to 05:00 pm	70
Q.1	(a) (b)	Discuss flooding and its variants in WSN along with traffic implosion and overlapping problem. Discuss Application examples of WSN.	07 07
Q.2	(a) (b)	Discuss Sensor node hardware overview and explain any 2 components? Explain Programming paradigms and application programming interfaces? OR	07 07
	(b)	Explain energy consumption for Sensor nodes.	07
Q.3	(a) (b)	Explain categories of WSN. Discuss applications/examples for 2 types of WSN. Explain any one.	07 07
		OR	
Q.3	(a) (b)	Explain the performance metrics for MAC protocols. Write a short note on S-MAC.	07 07
Q.4		Explain SPIN protocol family. Discuss the use of interest and gradient in direct diffusion with proper example.	07 07

OR

OR

(a) Discuss Routing Challenges in WSN?

(a) Write note on TinyOS and MagnetOS.

(b) What is IoT? Discuss Rasberry Pi.

Write a note on Home Control applications of WSN.

Discuss GARUDA and CODA with respect to TCP.

Explain LEACH in detail.

Q.4

Q.5

Q.5

(b)

(a)

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