]	Enrollment No:					Exam Seat No:			
			\mathbf{C}	.U.SF	HAH	UNIV	ERS	SITY	
				Summ	ner Exa	aminati	ion-2	017	
Subject Name: Wireless Technology for Embedded System									
,	Subject Code: 5TE02WTE1			Bran	Branch: M.Tech (VESD)				
\$	Semeste	er: 2	Date:	09/05/2017	' Time	e: 02:00 to 0)5:00	Marks: 70	
	(3)	Draw	neat diagr		gures (if ne eded.	ook are stricecessary) at r			
Q-1		Dofir	ne the foll	lowing teri		TION – I			(07)
Q-1	a.	TDD		lowing terr	1115•				(07)
	b.	Node							
	c.	Path I Senso							
	a. e.		or ool Rate						
	f.	Data							
	g.	BER							
Q-2			mpt all qu						(14)
	(a)			rs and its ty		i1			
	(b)	vv 11at	. is Aggre	gauon: Ex	plain in det	an.			
						OR			

Q-2		Atter	npt all quest	ions.	(14)
	()		EDC 4	1 4 010	

- (a) Compare FPGAs, and ASICs.
- **(b)** Write a short note on CDMA.

Q-3 Attempt all questions. (14)

- (a) Explain Challenges for WSNs.
- (b) Explain Transceiver tasks and characteristics in detail.

OR

Q-3 Attempt all questions. (14)

- (a) Explain the need of Wireless Technology for Embedded System.
- (b) Write a note on Event-based programming model of WSN.



SECTION – II

Q-4		Define the following terms.	(07)
	a.	FDD	
	b.	Doppler fading	
	c.	Embedded System	
	d.	Multi-hop communication	
	e.	Transceivers	
	f.	Reflection	
	g.	Diffraction	
Q-5		Attempt all questions.	(14)
~ -	(a)	Give the Overview of main sensor node hardware components.	(= -)
	(b)	What is Gateway? Explain the need for gateways in WSN.	
		OR	
Q-5		(14)	
	(a)	Attempt all questions. Compare Single-hop versus Multi-hop networks in detail.	,
	(b)	Explain Hidden-terminal scenario with necessary figure.	
			44.0
Q-6		Attempt all questions.	(14)
	(a)	Explain log-distance path loss model with necessary equation.	
	(b)	Discuss the properties of localization and positioning procedures.	
		OR	
Q-6		Write notes on:	(14)
	(a)	Demand assignment protocols.	
	(b)	Lightweight time synchronization protocol (LTS).	



