## CBCS SCHEME

USN					15EC752
	Sevent	h Semester B.E.		1 489×	
		<b>IOT</b> and Wir	eless Se	nsor Netwo	rks
Time	: 3 hrs.			****	Max. Marks: 80

111		Note: Answer FIVE full questions, choosing ONE full question from each modi	ıle.						
Module-1									
1	•	Explain the major components of IOT system with necessary diagrams.	(10 Marks)						
1	a. b.	Explain the sources of IOT development board which can be used for	3						
	υ.	development.	(06 Marks)						
			,						
		OR							
2	a.	Explain OSI model the IOT/M2M systems with necessary diagram.	(08 Marks)						
	b.	Explain with a neat diagram constrained RESTful environment (CORE) protocol. (08 Marks)							
2	•	Module-2  Explain with a neat diagram, internet based communication.	(10 Marks)						
3	a. b.	Describe IP addressing in the IOT.	(10 Marks) (06 Marks)						
	υ.	Describe if addressing in the 101. (06 Marks)							
		OR							
4	a.	Explain cloud computing paradigm for data collection, storage and computing.	(10 Marks)						
	b.	Mention the features and advantage of cloud computing.	(06 Marks)						
_		Module-3	(0CNC 1 )						
5	a. b.	Explain Programming Embedded device Arduino platform using IDE.  Explain five levels for software development for applications and services in	(06 Marks)						
	υ.	M2M.	(10 Marks)						
			(10 1/141115)						
		OR							
6	a.	Discuss the vulnerabilities of IOT.	(06 Marks)						
	b.	Explain Layered Attacker Model.	(10 Marks)						
		Modulod							
7	a /	Module-4 Explain Main sensor node hardware components with necessary diagram. (10 Marks)							
,		List the transceiver tasks and characteristics.	(06 Marks)						
	4		,						
		OR							
8	a.	Explain energy consumption of sensor nodes for operation states with diffe							
		consumption	(10 Marks)						
	b.	Explain three types of mobility.	(06 Marks)						
	Module-5								
9	a.	Explain S-MAC protocols in detail.	(08 Marks)						
	b.	Explain LEACH protocols in detail.	(08 Marks)						
		OR							
10	a.	Explain energy efficient unicast protocols in detail.	(10 Marks)						
	b.	Explain Position Based Routing.	(06 Marks)						
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