CBCS SCHEME

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JSN		205051
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First Semester M.Tech. Degree Examination, Jan./Feb.2021

Гim	Internet of Things and Applications ne: 3 hrs. Max.				
		ote: Answer any FIVE full questions, choosing ONE full question from each mo	dule.		
	134	Module-1			
1		Define Internet of Things. Justify internet of things is "Just a concept" infrastructure".	(10 Marks)		
	b.	Explain any four applications of automotives. OR	(10 Marks)		
2	a.	Explain IOT framework with respect to high Level M2M System Architecture (H	LSA).		
_	и.		(10 Maiks)		
	b.	Explain the role of IPV6 in IOT.	(10 Marks)		
		Module-2			
3	a.	Compare contactless smart card and RFID tags.	(10 Marks)		
3	b.	Discuss structural aspects of IOT.	(10 Marks)		
		OR	(10 Marks)		
4	a.	Explain the RPL ROLL routing protocols. With a neat sketch, explain 3GPP service model and architecture.	(10 Marks)		
	b.	With a neat sketch, explain 5014 get vice model and			
		Module-3	(40.3/ 1.)		
5	a.	List and explain IEEE 802.15.4 frames.	(10 Marks) (10 Marks)		
	b.	Describe the architecture of Bluetooth system with HDP and applications.	(10 Maiks)		
		OR			
6	a. Explain the interaction between NFC interrogator and NFC device communicates. (10 Marks)				
	b.	With neat diagram, explain the overall network architecture of the Evolved Pa	cket Systen		
		(EPS) network elements.	(10 Marks		
		Module-4			
7	а	With neat diagram, explain home automation IOT system-mode service and state	e service.		
,	a.	, 05 2	(10 Marks		
	b.,₄	Show how the communication occurs between various components of the	(10 Marks		
	G	implementation of the weather monitoring system.	(10 Marks		
		OR			
8	a.	With neat diagram, explain smart parking IOT system.	(10 Marks		
•	b.	Explain smart irrigation system with python code for controller native service.	(10 Marks		
		\ '			
•		Explain the procedure to you setup Hadoop cluster.	(10 Marks		
9	a.	Write note on: (i) Hadoop map reduce (ii) Hadoop yarn.	(10 Marks		
	b.				
		OR	int		
10	а	Explain Oozie workflow for computing machine status error codes with min cou	ш.		

a. Explain Oozie workflow for computing machine status en 10 b. Explain Apache storm for real time data analysis.

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(10 Marks)

(10 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.