C		Reg. No. :												
		Question Pape	r Co	ode	e: 5	921	0							
	B.E	E./B.Tech. DEGREE EX	KAM!	INA	ATIC)N, 1	VOV	201	8					
		Elec	ctive											
		Computer Science	e and	En	igine	eerin	g							
	15	UCS910 – BUILDING	INT	ERI	NET	OF	THI	NGS	5					
		(Regulat	ion 2	015)									
Duration: Three hours Answer ALL Questions						Maxi	ximum: 100 Marks							
		PART A - (5	x 1 =	5 N	1ark	s)								
1.	A wi-fi enabled dev	rice can be										CO1-		
	(a) PC	(b) Game console	(c)) M	obile	e pho	one		(d).	All c	of the	above		
2.	Which one of the below instance are not a type of actuator											CO2-		
	(a) An electric motor	(b) A hydraulic system												
	(c) A pneumatic system				(d) Microphone									
3.	Information about a	ed									CO3-			
	(a) Object data	(b) Event data	(c)) Se	curi	ty da	ıta		(d)	None	e of t	these		
4.	RFD stands for											CO4-		
	(a) Reduced Function Devices			(b) Reduced Field Devices										
	(c) Reduced Function	(d) Reduced Functional Devices												
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5. _____ is the feature of cloud computing that allows the service to change in size or volume in order to meet a user's needs.

(b) Virtualization

CO5- R

(d) Cost-savings

PART - B (5 x 3= 15Marks)

(c) Security

6. Define smart gateway.

(a) Scalability

CO1-R

7. What is Software Agents? List out its properties.

CO2-R

8.	Wri	Write short notes about Cluster Head election mechanism.							
9.	Mention the roles of Orchestrator nodes and Broker nodes.								
10.	Wri	Write short notes on open source e-Health sensor platform.							
		$PART - C (5 \times 16 = 80 Marks)$							
11.	(a)	What is RFID and Explain its Applications.	CO1- U	(16)					
		Or							
	(b)	How IOT components are Works. Explain in detail with an application.	CO1- U	(16)					
12.	(a)	Explain about programming Languages for IoT. How to Choose it. Explain with an example.	CO2- U	(16)					
		Or							
	(b)	What is sensors and actuators. What are the factors we need for choosing sensor and actuators?	CO2- U	(16)					
13.	(a)	List out the types of network architecture and explain it each in detail.	CO3- U	(16)					
		Or							
	(b)	Explain in detail about the Evolution from the RFID-based EPC Network to an Agent-based Internet of Things.	CO3- U	(16)					
14.	(a)	Explain in detail about device integration discuss the ways to identify and address the discovered devices.	CO4- U	(16)					
		Or							
	(b)	Discuss about application of Ontology Engineering in the Internet of Things.	CO4- U	(16)					
15.	(a)	Explain the concepts of web enabling constrained devices with an example.	CO5 U	(16)					
	(b)	Or Evaluin about amort things and have to design DESTful Smortful	COFII	(16)					
	(b)	Explain about smart things and how to design RESTful Smartful Things.	COS U	(16)					