Explain PAMAS and TRAMA.





USN												17EC752
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Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 **IOT and Wireless Sensor Networks**

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

	IN	ote: Answer any FIVE juli questions, choosing ONE juli question from each h	noaute.							
		Module-1								
1	a.	Explain the IBM IOT conceptual Framework. Describing the function of each l	evel.							
			(08 Marks)							
	b.	What are the major components of IOT system?	(08 Marks)							
	c.	Differential between software and Firmware.	(04 Marks)							
		OR								
2	a.	What are the functions of gateway at data adaptation layer?	(08 Marks)							
_	b.	Explain the various wireless communication technologies.	(08 Marks)							
	c.	State the 3 domains of M2M architecture.	(04 Marks)							
	٠.	Same the 5 defination of 1/121/1 definitional of	(011111115)							
		Module-2								
3	a.	Explain 6LoWPAN protocols.	(08 Marks)							
	b.	State and explain any 2 application layer protocols.	(08 Marks)							
	c.	Differentiate cloud, grid and web computing.	(04 Marks)							
		OR OR								
4	a.	Explain and compare the features of IPV4 and IPV6.	(08 Marks)							
4	а. b.	Explain IOT cloud service using Nimbits	(08 Marks)							
	c.	State the function and DHCP protocol.	(04 Marks)							
	٠.	State the function and Birer proteon.	(or marks)							
		Module-3								
5	a.	Explain how temperature can be measured using Arduino UNO.	(10 Marks)							
	b.	Explain the security homography and layer attack models.	(10 Marks)							
		OR OR								
6	a.	Explain the steps involved in programming MQTT client and Server.	(10 Marks)							
U	а. b.	Explain the following: i) Use Miscues cases ii) IOT privacy and security.	(10 Marks) (10 Marks)							
	0.	Explain the following. I) ose trisedes cases in 101 privacy and security.	(10 Marks)							
		Module-4								
7	a.	Explain about transceivers – structures, tasks and characteristics.	(10 Marks)							
	b.	Explain about energy consumption and requirements of batteries for WSNs.	(10 Marks)							
		OR								
R	а	Explain the programming Paradigms and programming models.	(10 Marks)							
U	h.	Explain node mobility, sink mobility and event mobility.	(10 Marks)							
	٠.	Zapiani neue meemey, emik meemey and evene meemey.	(10 1/11/11/15)							
		Module-5								
9	a.	Explain SMACS protocol. Also explain the 4 cases of link setup.	(10 Marks)							
	b.	Explain about multipath unicast routing.	(10 Marks)							
	OR									
10	a.	Explain about hierarchical network of clustering.	(10 Marks)							
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(10 Marks)