	EDUCATION C	
Reg No.:_	Name:	
	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY	
	Eighth Semester B. Tech Degree (R, S) Examination May 2024 (2019 Scheme)	
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Course Code: MRT414 Course Name: IOT AND APPLICATIONS

Max. Marks: 100 Duration: 3 Ho			
		PART A Answer all questions, each carries 3 marks.	Marks
1	c	What are the IoT components for implementation?	(3)
2		Compare Hydraulic and Pneumatic actuators.	(3)
3		Write a note on RFID technology.	(3)
4		What are Wireless Nano sensor networks?	(3)
5		Explain the difference between FANET and the existing Ad hoc Networks.	(3)
6		How communications achieved in UAV?	(3)
7		Explain private cloud deployment model.	(3)
8		Explain any two applications of fog computing.	(3)
9		Give a brief description about HAN elements.	(3)
10		Write a short note on smart dust.	(3)
		PART B Answer any one full question from each module, each carries 14 marks.	
		Module I	
11	a)	Discuss in detail about the Characteristics of Sensors in IoT.	(14)
		OR	
• 12	a)	Explain in detail about any three IoT data protocols.	(14)
		Module II	
13	a)	Describe in detail about wireless multimedia sensor networks	(14)
		OR	
14	a)	Elucidate about Zigbee and Bluetooth Technology.	(14)
		Module III	
15	a)	Explain the concept of FANET in IoT, highlighting its design considerations	(14)
		OR	
16	a)	Explain the working of a Unmanned Arial Vehicle in detail.	(14)

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1.	Min.		Module IV	
17	a)	Explain	any five Cloud computing deployment models	(14)
			OR	
18	a)	What is	the role of fog computing in following area	(14)
		i.	Smart Homes	
		ii.	Smart Vehicle	i Se o ouera d'una
		iii.	Smart Cities	
			Module V	
19	a)	Explain	the application of IIoT in health care service industry.	(14)
			OR	
20	a)	How IIo	Thelps in manufacturing industry to increase the productivity	v. (14)