Reg No.:	Name:

APJ ABDUL KA**D520 MCAA841123 191**CAL UNIVERSITY

Third Semester MCA (Two Years) Degree (R, S) Examination December/January 2023-24

Course Code: 20MCA281 Course Name: INTERNET OF THINGS

Max. Marks: 60		Hours		
	PART A Answer all questions, each carries 3 marks.	Marks		
1	Explain about Resource Management in IOT.	(3)		
2	Define Caching technique.	(3)		
3	Write short note on TinyOS	(3)		
4	List the Applications of Fog Computing.	(3)		
5	Illustrate the differences between DSMS and CEP.	(3)		
6	Compare Stream Model and Batch Model.	(3)		
7	Illustrate the IoT Security Requirements.	(3)		
8	Compare obfuscation and diversification techniques.	(3)		
9	Describe Three key components to an IOT architecture	(3)		
10	Explain Inter-Integrated Circuit (I2C) or Two Wire Interface (TWI).	(3)		
	PART B			
Answer any one question from each module. Each question carries 6 marks. Module I				
11	Explain about Internet of Things. Illustrate the different Applications of IOT.	(6)		
	OR			
12	With the help of neat diagram explain about the Open IoT Architecture for	(6)		
	IoT/Cloud Convergence.			
	Module II			
13	Explain Fog Computing Reference Architecture with the help of relevant	(6)		
	Diagram.			
OR				
14	Explain the importance of Fog Computing in IOT Applications.	(6)		

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15	Module III Illustrate the characteristics of stream data in IOT.	(6)
10	OR	(0)
16	With the help of relevant diagram Explain the general architecture of a stream-	(6)
	processing system in IOT.	
	Module IV	
17	Explain about IOT routing attacks.	(6)
	OR	
18	Explain about Security Frameworks for IoT.	(6)
	Module V	
19	Explain about Gateway hardware and software. What are the requirements for	(6)
	selecting gateway hardware.	
	OR	
20	Illustrate the sensors required to build the environmental-sensing IoT gateway	(6)
	device for weather monitoring.	