

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

IV B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH-2023
FUNDAMENTALS OF IOT
(EEE Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-AAnswer **all** the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) Define IoT. List the components of IoT systems.	[2M]	1	1
	b) Name the different types of antennas used for IoT devices.	[2M]	2	1
	c) What is the fourth step in design methodology of IoT Systems?	[2M]	3	1
	d) Differentiate between Arduino and Raspberry pi.	[2M]	4	4
	e) List any four suitable databases for IoT.	[2M]	5	1

PART-BAnswer **One Question from each UNIT (5X10=50M)**

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	a) Discuss about the advantages of IoT?	[5M]	1	2
	b) What are different layers of the IoT protocol stack?	[5M]	1	1
OR				
3.	a) Write short notes on IoT Level 6.	[5M]	1	1
	b) What are the fundamental components of IoT?	[5M]	1	1
UNIT-II				
4.	Discuss in detail about the IoT Design methodology for Environment and Energy automation.	[10M]	2	4
OR				
5.	How the IoTs are used in Agriculture and Industry automation.	[10M]	2	2
UNIT-III				
6.	a) Discuss about the IOT Data Lifecycle.	[5M]	3	2
	b) What are the differences between Software defined networking and Network Virtualization	[5M]	3	1
OR				
7.	a) What are the differences between M2M and IoT?	[5M]	3	1
	b) Discuss about the importance of Python for IoT.	[5M]	3	4
UNIT-IV				
8.	a) Discuss about the LED blinking process using Raspberry Pi.	[5M]	4	4
	b) Discuss about Raspberry Pi interfaces.	[5M]	4	4
OR				
9.	a) What are the basic building blocks of an IoT Device?	[5M]	4	1
	b) What are the basic requirements of Raspberry Pi board?	[5M]	4	1
UNIT-V				
10.	Explain the domain specific IOT for Home Automation?	[10M]	5	2
OR				
11.	Elaborate the Building Smarter cities using IoT.	[10M]	5	4
