

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - December- 2025
INTERNET OF THINGS
(CSE)

[Time: 3 Hours]

[Max. Marks: 60]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 10 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(10 Marks)

1. a)	List the characteristics of IoT.	[1M]
b)	What is meant by Things in IoT?	[1M]
c)	Differentiate between IoT and M2M.	[1M]
d)	What is the need for IoT systems management?	[1M]
e)	State features of python Language.	[1M]
f)	What are the control flow statements?	[1M]
g)	How Raspberry Pi is different from desktop computer?	[1M]
h)	What is the use of GPIO pin in Raspberry Pi?	[1M]
i)	What is REST API?	[1M]
j)	Define Django template.	[1M]

PART-B

(50 Marks)

2.	Describe various Communication models used in IoT.	[10M]
OR		
3.	Briefly explain the technologies which play key role in IoT.	[10M]
4.	Illustrate end-to-end architecture of M2M systems with a neat diagram.	[10M]
OR		
5.	Discuss in detail about software defined networking for IoT.	[10M]
6.a)	What is python function? Write the characteristics of a python function.	[5M]
b)	Write a Python program that prints multiplication table of a given number.	[5M]
OR		
7.	What is Module in python? Explain how you can use modules in your program with example code.	[10M]
8.	Explain the interfacing of a Light sensor (LDR) with Raspberry Pi.	[10M]
OR		
9.	With a neat diagram, explain wireless temperature monitoring system using Raspberry Pi.	[10M]
10.	Describe the architecture of Django application.	[10M]
OR		
11.	Explain Web Application frame works and web API.	[10M]
