

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-II-Semester End Examinations (Supply) - December- 2025
INTERNET OF THINGS
(IT)

[Time: 3 Hours]

[Max. Marks: 70]

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

Part A is compulsory which carries 20 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**(20 Marks)**

1. a)	What are the Characteristics of IoT?	[2M]
b)	Define IoT.	[2M]
c)	What is M2M?	[2M]
d)	Give an example of IoT devices.	[2M]
e)	What are the Data types in python?	[2M]
f)	What are the Functions in python?	[2M]
g)	What is SPI?	[2M]
h)	How Raspberry Pi is useful for IoT?	[2M]
i)	How Internet of Things (IoT) provides Privacy?	[2M]
j)	What are the physical servers in IoT?	[2M]

PART-B**(50 Marks)**

2.	What are the IoT Enabled Technologies? Explain each with an example.	[10M]
OR		
3.	Draw the IoT Block diagram (Physical design of IoT device) and explain each interfacing unit.	[10M]
4.	Write the difference between M2M and IoT.	[10M]
OR		
5.	Write the difference between SDN and NFV.	[10M]
6.	Explain about Language Features of Python.	[10M]
OR		
7.	Explain about Exception handling python packages.	[10M]
8.	What are the steps involved in Python programming with Raspberry Pi?	[10M]
OR		
9.	Draw and Explain the interfaces SPI, I2C, UART of Raspberry Pi.	[10M]
10.	Explain in detail about cloud storage models.	[10M]
OR		
11.	Explain about communication APIs Webserver.	[10M]
