

Code No.: IT623PE

R20

H.T.No.

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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]
