

Code No.: DS851PE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–II–Semester End Examinations (Advanced Supply) – June- 2025

INTERNET OF THINGS

(CSD)

[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) Mention the Characteristics and components of IOT. [2M]
- b) Explain Advantages and disadvantages of IOT. [2M]
- c) Define M2M. Explain reasons of shifting from M2M to IoT [2M]
- d) Define Network Function Virtualization [2M]
- e) Give an example for type conversion in Python. [2M]
- f) What is JSON? [2M]
- g) Illustrate how to interface a switch to raspberry pi. [2M]
- h) List available models in Raspberry Pi [2M]
- i) What are cloud offerings in the context of IoT? [2M]
- j) What is Restful web API? [2M]

PART-B

(50 Marks)

2. Explain the Physical Design of IoT. [10M]
- OR**
3. Give a brief note on IoT communication models. [10M]
4. Write a short note on NETOPEER. [10M]
- OR**
5. Compare and contrast the M2M vs IoT applications. [10M]
6. What are the types of arguments supported by python? Explain with an example. [10M]
- OR**
7. Describe the XML and HTTP Lib in detail. [10M]
8. Implementation of Python program with Raspberry PI with a focus on interfacing external gadgets. [10M]
- OR**
9. List and explain the interfaces are available with Raspberry Pi. [10M]
10. Demonstrate about cloud storage models and communication. [10M]
- OR**
11. Explain the Python web application framework. [10M]
