

Code No.: EC57104PE

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CMR ENGINEERING COLLEGE : HYDERABAD
UGC AUTONOMOUS

I-M.TECH-I-Semester End Examinations (Regular) – April - 2022
IOT AND ITS APPLICATIONS (PE – II)
(VLSI SD)

[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) Define IoT. [2M]
- b) List out major applications of IoT. [2M]
- c) Explain the M2M value chain. [2M]
- d) Explain the IoT reference model. [2M]
- e) Explain the IoT architecture. [2M]
- f) Explain the IoT reference architecture functional view. [2M]
- g) Define Big Data. [2M]
- h) Explain the IoT for retailing industry applications. [2M]
- i) Why need security in IoT. [2M]
- j) List out IoT security issues. [2M]

PART-B

(50 Marks)

2. Explain the IoT strategic research and innovation directions. [10M]
- OR
3. Explain the security and data management. [10M]
4. Explain the design principle and needed capabilities of IoT architecture. [10M]
- OR
5. Explain the various communication models that can be used for weather monitoring system. [10M]
6. Explain the Reference Model and architecture of IoT. [10M]
- OR
7. What is the need for IOT system management and Explain the IoT deployment? [10M]
8. Explain the Value Creation from Big Data. [10M]
- OR
9. Explain the smart application using IoT. [10M]
10. Explain the security and governance of the IoT. [10M]
- OR
11. Explain in details about the privacy and security issues of internet of things. [10M]
