Code No.: IT623PE | R20 | H.T.No. | | | 8 | R | | | | |

CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–II–Semester End Examinations (Regular) - June- 2024
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 is cloud computing?   [2M]
   b) Explain Dynamic & self adapting and self configuration characteristics in IoT [2M]
   c) What is M2M?   [2M]
   d) What is SDN?   [2M]
   e) What is file handling?   [2M]
   f) What are the classes in python?   [2M]
   g) What is SPI   [2M]
   h) What is serial, I2C?   [2M]
   i) What are the physical servers in IoT   [2M]
   j) What is API?   [2M]

PART-B   (50 Marks)

2. Explain about Smart Home and Smart Environment applications with example.   [10M]
                                    OR
3. Explain about Cloud computing and communication protocols.   [10M]

4. Compare and construct between the M2M and IoT.   [10M]
                                    OR
5. Explain about Network Function virtualization.   [10M]

6. Explain about Language Features of Python.   [10M]
                                    OR
7. Explain about Exception handling python packages (JSON, XML).   [10M]

8. What are the steps involved in Programming Raspberry Pi with Python.   [10M]
                                    OR
9. Write a program to interface LED with Raspberry Pi and Blink it.   [10M]

10. Explain about cloud storage models.   [10M]
                                    OR
11. Explain about python web application framework Designing a REST-ful web API. [10M]

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