Code No: R193205J

(R19)

(SET - 1)

III B. Tech II Semester Regular Examinations, June-2022
INTERNET OF THINGS
(Electrical and Electronics Engineering)

Time: 3 hours   Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
*****

UNIT-I

1. a) Explain an IoT reference model CISCO conceptual frame work.   [8M]
    b) What are the differences between Internet of Things (IoT) and   [7M]
       M2M?

(OR)

2. a) Describe the characteristics and challenges of IoT   [8M]
    b) Write a short note on M2M Communication.   [7M]

UNIT-II

3. a) Explain briefly any four communication technologies of IoT.   [8M]

    b) Explain the architecture of modified OSI stack   for and M2M.   [7M]

(OR)

4. a) Describe ETSI M2M domain architecture.   [8M]
    b) Explain the adaptation gateway functions.   [7M]

UNIT-III

5. a) Write the key differences between Request-Response and Publish   [8M]
       Subscribe communication protocols.
    b) Explain URI (Universal Resource Identifier) with example, how it   [7M]
       retrieve the saved data.

(OR)

6. a) Explain the characteristics of Simple Object Access Protocol   [8M]
       (SOAP).
    b) Explain about REST API in Internet of Things (IoT) with a neat   [7M]
       diagram.

UNIT-IV

7. a) Describe any two wired and wireless communication   [8M]
       technologies which are used in IoT applications.
    b) Differentiate Bluetooth and Bluetooth Low-Energy (BLE)   [7M]
       communication technologies.

|'''|'|'|'||''||||

(OR)

8. a) Write a short note on: (i) MQTT and (ii) AMQP [8M]

    b) List advantages and disadvantages of Constrained Application Protocol. [7M]

UNIT-V

9. a) Explain the data management and consolidation gateway functions. [8M]

    b) Classify the data storage categories. [7M]

(OR)

10. a) Explain the business intelligence process architecture. [8M]

    b) Describe descriptive analytics methods. [7M]

*****

|''''|'|'|''||'''|||