



CBCS SCHEME

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21ME644

Sixth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Internet of Things (IoT)

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Describe Internet of Things (IoT). (07 Marks)
- b. Discuss keeping secrets of data in IoT. (07 Marks)
- c. Briefly discuss any five flavor of internet of things. (06 Marks)

OR

- 2 a. Discuss the calm and ambient technology. (10 Marks)
- b. What is the web thinking for connected devices in IoT? (10 Marks)

Module-2

- 3 a. What is embedded system? Give examples. (06 Marks)
- b. Describe embedded system with block diagram. (10 Marks)
- c. Write a note on Arduino. (04 Marks)

OR

- 4 Discuss the following briefly:
(i) System-on-chip (ii) Choosing your platform (iii) IoT hardware (iv) Openness
(20 Marks)

Module-3

- 5 a. What is Raspberry Pi? Discuss briefly. (10 Marks)
- b. Discuss Always-on internet of things. (05 Marks)
- c. Write the applications of Raspberry Pi (any five) (05 Marks)

OR

- 6 a. List the any five notable platforms in IoT. (05 Marks)
- b. Discuss the microcontroller with block diagram. (15 Marks)

Module-4

- 7 a. Discuss the IP protocol suite (TCP/IP). (15 Marks)
- b. List any four advantages of TCP/IP model. (05 Marks)

OR

- 8 a. What is IP address? Discuss the static and dynamic IP address. (15 Marks)
- b. Write a note on MAC address. (05 Marks)

Module-5

- 9 a. Define API and discuss briefly with an example. (12 Marks)
- b. What is web-scraping? List the process/steps in web scraping. (08 Marks)

OR

- 10 Write a short note on :
a. Legalities b. CLOCKDILLO
c. Polling (Real time reaction) d. MQ Telemetry Transport. (20 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.