



Seventh Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Internet of Things (IoT)

Max. Marks: 100

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

Module-1

- 1 a. What is IoT? Differentiate between IoT and M2M and IoT and WOT. (10 Marks)
- b. Explain the Evolution of IoT with diagram and example. (10 Marks)

OR

- 2 a. Explain the Interdependence and reach of IoT over various application domains and Networking paradigms. (10 Marks)
- b. Explain the Enabling IoT and Complex Interdependence of Technologies. (10 Marks)

Module-2

- 3 a. Define Sensor, explain the functional block of a typical sensor node in IoT. (10 Marks)
- b. List and explain different types of sensing providing an example for each. (10 Marks)

OR

- 4 a. What is an actuator? Explain the different types of actuators with an example for each. (10 Marks)
- b. Explain the sensor and actuators characteristics with examples. (10 Marks)

Module-3

- 5 a. List and explain data Formats in IoT Applications. (10 Marks)
- b. Explain the various processing Topologies in IoT. (10 Marks)

OR

- 6 a. List and explain the key considerations in IoT device design and selection. (10 Marks)
- b. What is processing off loading? Explain the three key aspects of processing offloading. (10 Marks)

Module-4

- 7 a. Explain IEEE 802.15.4 IoT Access Technology. (10 Marks)
- b. Explain the Zigbee Connectivity Protocol in IoT. (10 Marks)

OR

- 8 a. Explain the Wireless HART Network Architecture. (10 Marks)
- b. Explain the Bluetooth device network architecture and protocol stack. (10 Marks)

Module-5

- 9 a. What is Device Management, explain any Two Device Management Protocols. (10 Marks)
- b. What is Framework? Explain different Interoperability Frameworks. (10 Marks)

OR

- 10 a. Explain different types of Data Protocols. (10 Marks)
- b. Explain the following with neat diagram : (10 Marks)
- i) EnOcean
 - ii) DLNA
 - iii) Konnex

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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.