



CBGS SCHEME

21CS735

Seventh Semester B.E./B.Tech. Degree Examination, June/July 2026

Internet of Things

Time: 3 hrs.

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 & IoT and WoT. (10 Marks)
- b. Explain the evolution of IoT with diagram and example. (10 Marks)

OR

- 2 a. How is node mobility handled in IoT Network? (10 Marks)
- b. Explain the Addressing strategies in IoT. (10 Marks)

Module-2

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

OR

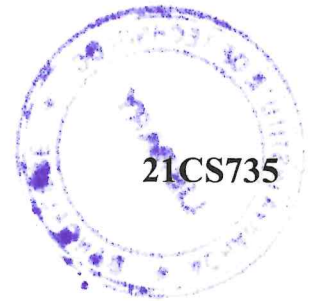
- 4 a. What is an Actuator? Explain the different types of actuators with an example for each. (10 Marks)
- b. Differentiate between Sensors and Actuators. (10 Marks)

Module-3

- 5 a. What are the different data formats found in IoT network traffic streams? (10 Marks)
- b. Define processing offloading with block diagram and explain any one data offloading. (10 Marks)

OR

- 6 a. Explain the pros and cons of on-site and off-site processing. (10 Marks)
- b. Explain the IoT Device Design and Selection Considerations. (10 Marks)



Module-4

- 7 a. Explain the protocol stack of IEEE 802.15.4. (10 Marks)
- b. Elaborate on the various network topologies of Zigbee and explain the protocol stack of Zigbee. (10 Marks)

OR

- 8 a. Differentiate between Class 1, 2 and 3 Bluetooth devices. (10 Marks)
- b. Explain the Z-wave protocol stack. (10 Marks)

Module-5

- 9 a. Explain IPV6 format. (10 Marks)
- b. Explain the Websockets in a stack. (10 Marks)

OR

- 10 a. Describe the following standards :
i) EnOcean
ii) DLNA (10 Marks)
- b. How is X-10 different from DLNA? (10 Marks)
