

- Q.20 What is the use of IoT in surveillance applications? (CO4)
- Q.21 What is the role of physical and logical design in IoT architecture? (CO1)
- Q.22 What are the basic steps for developing sensor-based IoT applications? (CO3)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain in detail the architecture and working of Arduino Uno. (CO1)
- Q.24 Describe the challenges faced in the design, development, and deployment of IoT. (CO1)
- Q.25 Explain IoT applications in home automation and surveillance with examples. (CO4)

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4th Semester/ Artificial Intelligence & Machine Learning Subject : Internet of Things

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which of the following is not an advantages of IoT? (CO1)
- a) Automation
 - b) Improved decision making
 - c) Data breaches
 - d) Remote monitoring
- Q.2 What does DHT11 Sensor measure? (CO3)
- a) Gas
 - b) Temperature & Humidity
 - c) Light intensity
 - d) Motion

- \Q.3 Which of these tools is used for developing IoT applications? (CO2)
- a) Eclipse IoT b) MS word
c) Excel d) Notepad
- Q.4 Which of the following is a domain-specific IoT application? (CO4)
- a) Word processor b) Smart agriculture
c) Mobile gaming d) Document scanner
- Q.5 Which of these is not a functional block of IoT? (CO1)
- a) Perception b) Data Analysis
c) Network d) Keyboard
- Q.6 What is a common challenge in IoT development? (CO1)
- a) Cost b) Speed
c) Security d) Portability

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 The physical design to IoT includes _____ and _____. (CO2)
- Q.8 REST stands for _____. (CO1)

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- Q.9 An actuator is a device that _____ a command. (CO3)
- Q.10 The microcontroller used in Arduino Uno is _____. (CO1)
- Q.11 The _____ sensor is used to detect human presence. (CO2)
- Q.12 An example of home automation is IoT is _____. (CO4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain the functional blocks of IoT. (CO1)
- Q.14 Describe client-server communication model in IoT. (CO2)
- Q.15 Write any two advantages and two disadvantages of IoT (CO1)
- Q.16 What are the benefits of using IoT in industrial settings? (CO4)
- Q.17 Describe security and development challenges in IoT. (CO1)
- Q.18 What are the different types of actuators used in IoT systems? (CO3)
- Q.19 Mention any two IoT development tools. (CO2)

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