



**Introduction to
Internet of Things
Assignment-Week 1**

TYPE OF QUESTION: MCQ/MSQ

Number of questions: 15

Total marks: 15 X 1 = 15

QUESTION 1:

IoT stands for _____.

- a. Internet of Tasks
- b. Internet of Tuples
- c. Internet of Things**
- d. None of these

Correct Answer: c. Internet of Things

Detailed Solution: The full form of IoT is “Internet of Things”

See lecture 1 (Introduction to IoT – Part - I) @ 1:30

QUESTION 2:

Which of the following technologies have unified and has resulted in the evolution of IoT?

- a. High-power embedded systems
- b. Super Computing
- c. Engine Technology
- d. None of these**

Correct Answer: d. None of these



Detailed Solution: Unification of technologies which has resulted in the advancement of IoT are –

- a. Low-power embedded systems
- b. Cloud Computing
- c. Big Data
- d. Machine Learning
- e. Networking

See lecture 1 (Introduction to IoT – Part - I) @ 5:54

QUESTION 3:

Which of the following are the enables of IoT?

- a. RFID
- b. Nanotechnology
- c. Sensors
- d. All of these

Correct Answer: d. All of these

Detailed Solution: The enables of IoT are –

- a. RFID
- b. Nanotechnology
- c. Sensors
- d. Smart Networks

See lecture 2 (Introduction to IoT – Part - I) @ 12:50



QUESTION 4:

Which of the following is NOT a function of an IoT LAN?

- a. Long range communication, global
- b. World wide connections
- c. Both (a) and (b)**
- d. Neither (a) Nor (b)

Correct Answer: c. Both (a) and (b)

Detailed Solution: The functionalities of an IoT Gateway are –

- a. Local, short-range communication
- b. Spreads across buildings or organization

See lecture 2 (Introduction to IoT – Part - II) @ 3:09

QUESTION 5:

State whether the following statement is True or False.

Statement: The integration of existing devices, smart devices, and constrained nodes in a singular framework is one of the reasons for the address crunch in IoT.

- a. True**
- b. False

Correct Answer: a. True

Detailed Solution: The integration of existing devices, smart devices, and constrained nodes in a singular framework is one of the reasons for the address crunch in IoT.

See lecture 2 (Introduction to IoT – Part - II) @ 02:35



QUESTION 6:

State True or False.

Statement: “In Multi-homing, a node/network is connected to a single network for improved reliability.

- a. True
- b. False

Correct Answer: b. False

Detailed Solution: In multi-homing, a node/network is connected to multiple networks for improved reliability.

See lecture 2 (Introduction to IoT – Part - II) @ 15:22

QUESTION 7:

Which of the following is/are the approach/approaches for multi-homing?

- a. Proxy-based approach
- b. Gateway-based approach
- c. Both (a) and (b)
- d. None of these

Correct Answer: c. Both (a) and (b)

Detailed Solution: The following are the approaches for multi-homing –

1. Proxy-based approach
2. Gateway-based approach

See lecture 2 (Introduction to IoT – Part - II) @ 16:10



QUESTION 8:

IPv6 uses _____ notation for its representation.

- a. Hexadecimal
- b. Binary
- c. Decimal
- d. None of these

Correct Answer: a. Hexadecimal

Detailed Solution: IPv6 uses Hexadecimal notation for its representation.

See lecture 2 (Introduction to IoT – Part - II) @ 17:00

QUESTION 9:

State True or False.

The parameters sensed by a sensor may be sent to the cloud for further processing.

- a. False
- b. True

Correct Answer: b. True

Detailed Solution: The parameters sensed by a sensor may be sent to the cloud for further processing.

See lecture 3 (Sensing) @ 01:15



QUESTION 10:

The IPv6 notation uses _____ number of bits to represent an address.

- a. 64
- b. 128
- c. Both (a) and (b)
- d. Neither (a) nor (b)

Correct Answer: b. 128

Detailed Solution: The IPv6 notation uses 128 bits to represent an address.

See lecture 2 (Introduction to IoT – Part - II) @ 16:33

QUESTION 11:

A sensor is -

- a. Only sensitive to the measured property
- b. Insensitive to any other property that what the sensor is made to sense
- c. Both (a) and (b)
- d. None of these

Correct Answer: c. Both (a) and (b)

Detailed Solution:

- a. Only sensitive to the measured property
- b. Insensitive to any other property that what the sensor is made to sense

See lecture 3 (Sensing) @ 12:30



QUESTION 12:

We classify sensors based on -

- a. Output
- b. Data type
- c. Both (a) and (b)
- d. None of these

Correct Answer: d. None of these

Detailed Solution:

We classify sensors based on -

- a. Output
- b. Data type

See lecture 3 (Sensing) @ 13:30

QUESTION 13:

Which of the following is correct statement

- a. Controlling AC loads using low DC signals
- b. Relays are electromechanical
- c. Relays are actuators
- d. All of these

Correct Answer: d. All of these

Detailed Solution: All the statements given are correct.

QUESTION 14:

Based on the output, sensors are classified as _____.



- a. Analog
- b. Digital
- c. Both (a) and (b)
- d. Neither (a) nor (b)

Correct Answer: c. Both (a) and (b)

Detailed Solution: Based on the output, sensors are classified as Digital and Analog.

See lecture 3 (Sensing) @ 13:05

QUESTION 15:

Soft actuators are -

- a. Polymer-based
- b. Mechanical
- c. Electromechanical
- d. None of these

Correct Answer: a. Polymer-based

Detailed Solution: Soft actuators are polymer based.

Lecture 4, @ 15:00

*****END*****