



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:

Which of the following is/are not a thing as per IoT?

- a. Fan
- b. Light
- c. Refrigerator
- d. None of the these

Correct Answer: d. None of the these

Detailed Solution: All of these are things as per IoT

See lecture 1 (Introduction to IoT – Part - I) @ 02:15

QUESTION 2:

State true or false.

Statement: The things in IoT consist of embedded systems.

- a. True
- b. False

Correct Answer: a. True

Detailed Solution: The things in IoT consist of embedded systems.

See lecture 1 (Introduction to IoT – Part - I) @ 04:15



QUESTION 3:

State whether the following statement is True or False.

Statement: IoT is one of the technologies that enable smart farms.

- a. True
- b. False

Correct Answer: a. True

Detailed Solution: IoT is one of the technologies that enable smart farms.

See lecture 2 (Introduction to IoT – Part - II) @ 05:27

QUESTION 4:

State whether the following statement is True or False.

Statement: In M2M, it is mandatory that the interactions between the machines and devices happen through a cloud computing infrastructure.

- a. True
- b. False

Correct Answer: b. False

Detailed Solution: In M2M, the interactions between the machines and devices can happen through a cloud computing infrastructure.

See lecture 1 (Introduction to IoT – Part - I) @ 33:22



QUESTION 5:

Sometimes, when there is a need for the nodes to communicate directly to the Internet,
_____ can be used.

- a. Sensors
- b. Actuators
- c. Tunneling
- d. None of these

Correct Answer: c. Tunneling

Detailed Solution: Sometimes, there is a need for the nodes to communicate directly to the Internet. This is achieved by tunneling.

See lecture 2 (Introduction to IoT – Part - II) @ 11:44

QUESTION 6:

State whether the following statement is true or false.

Statement: In multi-homing a node/network is connected to only two networks 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 not enablers of IoT?

- a. Advancement in gene sequencing
- b. Nanotechnology
- c. Sensors
- d. RFID

Correct Answer: a. Advancement in gene sequencing

Detailed Solution: The enablers of IoT are –

- a. RFID
- b. Nanotechnology
- c. Sensors

See lecture 1 (Introduction to IoT – Part - I) @ 12:41

QUESTION 8:

State whether the following statement is True or False.

Statement: The decreasing number of devices in IoT is expected to result in an address crunch.

- a. True
- b. False

Correct Answer: b. False

Detailed Solution: The increasing number of devices in IoT is expected to result in an address crunch.

See lecture 2 (Introduction to IoT – Part - II) @ 01:19



QUESTION 9:

Why IoT has become so popular?

- a. It can provide advanced level of services to the society
- b. It can help reduce human effort
- c. It can potentially make processes more efficient
- d. All of these

Correct Answer: d. All of these

Detailed Solution: IoT has become popular as –

- It can provide advanced level of services to the society
- It can help reduce human effort
- It can potentially make processes more efficient

See lecture 1 (Introduction to IoT – Part - I) @ 03:15

QUESTION 10:

State whether the following statement is true or false.

The resolution of a sensor is the maximum change it can detect in the quantity that it is measuring.

- a. False
- b. True

Correct Answer: a. Resolution

Detailed Solution: The resolution of a sensor is the smallest change it can detect in the quantity that it is measuring.

See lecture 3 (Sensing) @ 12:33

QUESTION 11:



Transducer is a _____ term and includes _____.

- a. special, only sensors
- b. special, only actuators
- c. collective, both sensors and actuators
- d. None of these

Correct Answer: c. collective, both sensors and actuators

Detailed Solution: Transducer is a collective term and includes both sensors and actuators.

See lecture 3 (Sensing) @ 11:49

QUESTION 12:

Which of the following is/are feature/features of sensors?

- a. It is only sensitive to the measured property.
- b. It acts on the surrounding environment.
- c. Both (a) and (b)
- d. None of these

Correct Answer: a. It is only sensitive to the measured property.

Detailed Solution: It is only sensitive to the measured property. It does not influence the measured property and does not act on the surrounding environment.

See lecture 3 (Sensing) @ 12:17

QUESTION 13:

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

- a. Low-power embedded systems
- b. Cloud Computing
- c. Machine Learning
- d. All of these

Correct Answer: d. All 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 14:

What is the full form of IoT?

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

Correct Answer: b. 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 15:

A sensor node is not made up of which of the following?

- a. Sensor/Sensors
- b. A processing unit
- c. A power unit
- d. None of these

Correct Answer: d. None of these

Detailed Solution: A sensor node is made up of a combination of sensor/sensors, a processor unit, a radio unit, and a power unit.

See Page number – 101, Chapter - 5, Book - Introduction to IoT, Authors – Sudip Misra, Anandarup Mukherjee, and Arijit Roy, Publisher – Cambridge University Press, Edition – 1 (2021)