

## Course outline

## About NPTEL

How does an NPTEL online course work?

## Week 0

## Week 1

Lecture 1: Introduction to IoT-Part-I

Lecture 2: Introduction to IoT-Part-II

Lecture 3: Sensing

Lecture 4: Actuation

Lecture 5: Basics of IoT Networking- Part -I

Week 1 : Lecture materials

Quiz: Week 01: Assignment 01

Week 1 Feedback Form

## Week 2

## Week 3

## Week 4

## Week 5

## Week 6

## Week 7

## Week 8

## Week 9

## Week 10

## Week 11

## Week 12

## Assignment Solutions

## Books

## Text Transcripts

## Live Interactive Session

## Week 01: Assignment 01

The due date for submitting this assignment has passed.

Due on 2025-08-06, 23:59 IST.

Assignment submitted on 2025-07-28, 18:33 IST

1) Which of the following is/are not a thing as per IoT? 1 point

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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(d)

2) State true or false. 1 point

Statement: The things in IoT consist of embedded systems.

- a. True
- b. False

- (a)
- (b)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(a)

3) State whether the following statement is True or False. 1 point

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

- a. True
- b. False

- (a)
- (b)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(a)

4) State whether the following statement is True or False. 1 point

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

- a. True
- b. False

- (a)
- (b)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(b)

5) Sometimes, when there is a need for the nodes to communicate directly to the Internet, \_\_\_\_\_ can be used. 1 point

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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(c)

6) State whether the following statement is true or false. 1 point

Statement: In multi-homing a node/network is connected to only two networks for improved reliability.

- a. True
- b. False

- (a)
- (b)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(b)

7) Which of the following is/are not enablers of IoT? 1 point

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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(a)

8) State whether the following statement is True or False. 1 point

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

- a. True
- b. False

- (a)
- (b)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(b)

9) Why IoT has become so popular? 1 point

- 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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(d)

10) State whether the following statement is true or false. 1 point

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

- a. False
- b. True

- (a)
- (b)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(a)

11) Transducer is a \_\_\_\_\_ term and includes \_\_\_\_\_. 1 point

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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(c)

12) Which of the following is/are feature/features of sensors? 1 point

- 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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(a)

13) Which of the following technologies have unified and has resulted in the evolution of IoT? 1 point

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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(d)

14) What is the full form of IoT? 1 point

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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(b)

15) A sensor node is not made up of which of the following? 1 point

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

- (a)
- (b)
- (c)
- (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(d)