

## Course outline

## About NPTEL

How does an NPTEL online course work?

Week 0

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Week 12

Lecture 56: Data Handling and Analytics-II

Lecture 57: Case Study: Agriculture

Lecture 58: Case Study: Healthcare

Lecture 59: Activity Monitoring (Case Study) - I

Lecture 60: Activity Monitoring (Case Study) - II

Lecture material of Week 12

Quiz: Week 12: Assignment 12

Week 12 Feedback Form

## Assignment Solutions

Books

Text Transcripts

Live Interactive Session

## Week 12: Assignment 12

The due date for submitting this assignment has passed.

Due on 2025-10-15, 23:59 IST.

As per our records you have not submitted this assignment.

1 point

- 1) The two types of data analysis are \_\_\_\_\_.

- a. Qualitative and Quantitative
- b. Repetitive and Quantitative
- c. Repetitive and Qualitative
- d. All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.

- 2) Fill in the blank.

1 point

To perform an ANOVA, we must have a \_\_\_\_\_ response variable and at least one \_\_\_\_\_ factor.

- a. Discrete, categorical
- b. Continuous, quantitative
- c. Discrete, quantitative
- d. Continuous, categorical

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

- 3) Select the statement(s) that denote the type of ANOVA.

1 point

Statement I: One way analysis

Statement II: Two way analysis

Statement III: K-way analysis

- a. Statement I

- b. Statement II

- c. Statements I, II, and III

- d. None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

- 4) What is the type of the data dispersion?

1 point

- a. Range

- b. Average absolute deviation

- c. Variance

- d. All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

- 5) The two most relevant sensors directly used in agriculture are \_\_\_\_\_.

1 point

- a. Soil moisture and proximity sensor

- b. Soil moisture and water level sensor

- c. ECG sensor and water level sensor

- d. All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

- 6) The mathematical equation that is formulated in the form of relationships between variables is known as \_\_\_\_\_.

1 point

- a. Logical model

- b. Relational model

- c. Data dispersion

- d. Statistical model

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

- 7) What are the two types of statistical models?

1 point

- a. Qualitative and quantitative

- b. Complete and incomplete

- c. Regression and dispersion

- d. None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

- 8) Select the correct order of the component layers present in the IoT healthcare.

1 point

- a. Sensing layer, cloud platform layer, aggregated layer, processing layer

- b. Sensing layer, aggregated layer, processing layer, cloud platform layer

- c. Aggregated layer, sensing layer, processing layer, cloud platform layer

- d. Sensing layer, processing layer, aggregated layer, cloud platform layer

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

- 9) Which of the following are components of IoT?

1 point

- a. Sensing layer

- b. Aggregated layer

- c. Processing layer

- d. All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

- 10) Which of the following handheld devices are used for activity monitoring?

1 point

- a. EEG and GPS

- b. Accelerometer and EEG

- c. Accelerometer and GPS

- d. All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

- 11) Which of the following are components of IoT?

1 point

- a. Sensing layer

- b. Aggregated layer

- c. Processing layer

- d. All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

- 12) By performing continuous monitoring of a person's activity, it is not possible to observe his/her behavior or to identify any repetitive pattern in his/her day-to-day activity.

1 point

- a. True

- b. False

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

- 13) Deep learning based data analysis cannot be performed on videos

1 point

- a. True

- b. False

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

- 14) Which of the following are the inbuilt sensors that are present in high end smartphones?

1 point

- a. ECG and EEG

- b. Accelerometer, proximity sensor, and EEG

- c. Accelerometer, Compass, and Gyroscope

- d. Pressure sensor and NPK sensor

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

- 15) Fill in the blank. Processing the handheld activity device data with artificial intelligence can be used for \_\_\_\_\_.

1 point

- a. Fall detection

- b. Heart rate detection

- c. Vehicle detection

- d. All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

a.