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## **Unit 14 - Week 12**



Register for Certification exam

### Course outline

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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: Case Study: Activity Monitoring - I
- Lecture 60: Case Study: Activity Monitoring - II
- Week 12 : Lecture Material
- Quiz : Assignment12
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## **Assignment 12**

The due date for submitting this assignment has passed.

Due on 2019-04-24, 23:59 I



1 point

1 point

1 point

1 point

Assignment submitted on 2019-04-15, 21:54 IST

- 1) If all the data points are same, statistical dispersion becomes
  - a.
  - b. 10
  - c. 100
  - d. None

Yes, the answer is correct.

Score: 1

**Accepted Answers:** 

d. None

- 2) The desirable characteristics of an IoT sensor node are
  - a. Energy-efficiency
  - b. Distributed sensing
  - c. Low-cost
  - d. All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

- d. All of the above
- 3) Long term trend tracking and preventive care in IoT healthcare is possible due to
  - a. ability of smart devices to collect data autonomously
  - b. ubiquitous connectivity
  - c. smart algorithms and analytics
  - od. all of the above

Yes, the answer is correct.

Score: 1

**Accepted Answers:** 

- d. all of the above
- 4) Activity monitoring in smart homes:

  - a. Provides better quality of lifeb. Provides information accurately in a reliable manner
  - c. Provides continuous monitoring support.
  - d. All of these

Yes, the answer is correct.

Score: 1

**Accepted Answers:** 

- d. All of these
- 5) Network-based activity recognition is:

1 point

a. Larger and processing intensive

DOWNLOAD VIDEOS	<ul><li>b. Low power consumption</li><li>c. Dependent on network connection</li></ul>	
	d. All of these	
Assignment Solution	Yes, the answer is correct. Score: 1	
Text Translation	Accepted Answers:	
	d. All of these	
	6) Which of these is a feature of qualitative data analytics?	1 pc <b>f</b>
	a. Data is not described through numerical values	<b>y</b>
	<ul> <li>b. Described by some sort of descriptive context such as text</li> <li>c. Data can be gathered by many methods such as interviews, videos and audio recordings, field no</li> </ul>	
	d. All of these	otes.
	Yes, the answer is correct. Score: 1	in
	Accepted Answers:	σ±
	d. All of these	8
	7) Which is true?	1 point
	a. The statistical model is defined as the mathematical equation that are formulated in the form of relationships between variables.	
	b. A statistical model illustrates how a set of random variables is related to another set of random variables.	ariables.
	c. Both a and b	
	d. None of these	
	Yes, the answer is correct. Score: 1	
	Accepted Answers:	
	c. Both a and b	
	8) ANOVA is applied	1 point
	a. when less than 2 samples/populations are to be compared	
	<ul><li>b. when more than 2 samples/populations are to be compared</li><li>c. Both a and b</li></ul>	
	d. None of these	
	Yes, the answer is correct. Score: 1	
	Accepted Answers:	
	b. when more than 2 samples/populations are to be compared	
	9) Which of the following can be the reasons for packet drop in IoT network?	1 point
	a. Dense foliage	
	b. High temperature	
	c. Rain d. All of the above	
	Yes, the answer is correct. Score: 1	
	Accepted Answers:	
	d. All of the above  10)The types of ANOVA are:	1 point
	○ a. 2	·
	b. 3	
	O c. 4	
	Od. 5	
	Yes, the answer is correct. Score: 1	
	Accepted Answers:	
	b. 3	
	11)Wearables can be used for:	1 point
	a. Child-care	

b. Elderly-care	
c. Entertainment	
d. All of these	
Yes, the answer is correct. Score: 1	
Accepted Answers: d. All of these	_
12)Wearable-based activity monitoring can be used for:	1 pc f
<ul> <li>a. Continuous monitoring of activity results in daily observation of human behavior ar their activities.</li> </ul>	nd repetitive patterns
b. Easy integration and fast equipping	
c. Long term monitoring	
d. All of these	in
Yes, the answer is correct. Score: 1	
Accepted Answers:	g
d. All of these	
13)Which of these is true is case of network based activity monitoring?	1 point
a. Larger and processing intensive methods can be applied	
b. Group based analytics possible	
c. Both a and b	
d. None of these	
Yes, the answer is correct. Score: 1	
Accepted Answers: c. Both a and b	
14)What is the network topology of Ambusens WBAN devices?	1 point
a. Bus topology	
b. Star Topology	
c. Mesh Topology	
d. None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: b. Star Topology	
15)Which of these sensors can be most cheaply used for basic activity monitoring in wearab	oles? 1 point
a. Accelerometer	
b. Cameras	
c. LIDARs	
O d. LED	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
a. Accelerometer	

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