Home / I'm Learning / Introduction to IoT / Introduction to IoT - Chapter 3 / Chapter 3 Quiz Introduction to IoT Home Started on Tuesday, 27 September 2022, 8:49 PM ď State Finished Completed on Tuesday, 27 September 2022, 8:55 PM Time taken 6 mins 8 secs Marks 30.00/30.00 Messages Grade 100.00 out of 100.00 Question $\bf 1$ Mark 2.00 out of 2.00 Which challenge of big data storage is characterized by the need to make data accessible from anywhere at anytime? Select one: analytics security access management Refer to curriculum topic: 3.1.2 Access refers to the characteristic of big data needing to be accessible from anywhere at anytime. The correct answer is: access Question 2 Correct Mark 2.00 out of 2.00 True or False? Data is defined as big data if it is more than 1 petabyte. Select one: false () true Refer to curriculum topic: 3.1.1 False. There is no minimum required for data to be considered big data. The correct answer is: false

Question 3	
Correct	
Mark 2.00 out of 2.00	
	l
A business is analyzing sales information as the sales data is being generated from the point-of-sale (POS) machines. What type of data is captured and processed as the events happen?	
Select one:	
○ transactional data	
saved data raw data	
analytical data	
Refer to curriculum topic: 3.1.3 There are two primary types of processed data, transactional and analytical. Transactional information is captured and processed as events happen. Analytical information supports managerial analysis using numerical analysis and decision making. The correct answer is: transactional data	
	1
Question 4	
Correct	
Mark 2.00 out of 2.00	
Which attribute of big data involves an exponential data growth rate? Select one:	
velocity velocity	
○ value	
○ variety	
volume	
Refer to curriculum topic: 3.1.1 The characteristic of valority refers to the amount of data that is growing exponentially fact.	
The characteristic of velocity refers to the amount of data that is growing exponentially fast.	
The correct answer is: velocity	
Question 5	1
Correct	
Mark 2.00 out of 2.00	
Making data accessible to only authorized users addresses which data storage problem associated with big data?	
Select one:	
management	
access	
redundancy	
o security	
Refer to curriculum topic: 3.1.2	
Stored data must be kept secure and only accessible by authorized users or it potentially loses its value.	
The correct answer is: security	

Question 6
Correct
Mark 2.00 out of 2.00
What is cloud computing?
Select one:
a comprehensive ecosystem of open-source software for big data management
a system of data centers or connected servers that provide anywhere/anytime access to data and applications
a process that turns raw data into meaningful information using patterns and relationships in data sets
an architecture that utilizes edge devices for data preprocessing and storage
Refer to curriculum topic: 3.1.2
Cloud computing uses data centers and groups of connected servers to provide users with access to data and applications anywhere, anytime, and
on any device.
The correct answer is: a system of data centers or connected servers that provide anywhere/anytime access to data and applications
Question 7
Correct
Mark 2.00 out of 2.00
True of False?
Structured data is easier to analyze and store than unstructured data.
Select one:
○ true
☐ false
Refer to curriculum topic: 3.1.2 Unstructured data, in contrast to structured data, is generated in a freeform style and is more difficult to store and analyze.
The correct answer is: true
The correct diswer is, the
Question 8
Correct
Mark 2.00 out of 2.00
What is the process of discovering patterns and relationships in large data sets in order to convert raw data into meaningful information?
Select one:
o data querying
data selection
○ data mining ✓
data formatting
Refer to curriculum topic: 3.1.3
Data mining is the process of turning raw data into meaningful information by discovering patterns and relationships in large data sets. To be of value, the mined data is analyzed and presented to decision makers.
The correct answer is: data mining

Question 9
Correct
Mark 2.00 out of 2.00
What type of data is being collected when an organization is using spreadsheets and forms for data input? Select one: application data structured data raw data unstructured data Refer to curriculum topic: 3.1.3 Collected data is categorized as either structured or unstructured data. Structured data is created by applications that use 'fixed' format input such as spreadsheets. Unstructured data is generated in 'freeform' style such as tweets or audio files. The correct answer is: structured data
Question 10
Correct
Mark 2.00 out of 2.00
What are three features of Hadoop? (Choose three.) Select one or more: uses HDFS as a fault tolerant file system requires proprietary software easily scalable cluster sizes automatic replication of data across clusters must run on a single virtual machine Refer to curriculum topic: 3.1.2 Hadoop is an open-source distributed storage solution for big data management. It easily scales cluster sizes, provides automatic replication of data across clusters, and uses HDFS as a fault tolerant file system. The correct answers are: easily scalable cluster sizes, uses HDFS as a fault tolerant file system, automatic replication of data across clusters
Correct
Mark 2.00 out of 2.00
True or False? Distributed data processing involves large databases being centrally processed by powerful mainframe computers and stored in giant disk arrays. Select one: false

Question 12
Correct
Mark 2.00 out of 2.00
An organization is concerned with the amount of sensor data that is being generated locally, analyzed in the cloud, and returned for processing at the local site. Which solution will keep the data closer to the source for preprocessing?
Select one:
odata mining
distributed processing
Cloud computing
of fog computing
Refer to curriculum topic: 3.1.2
Fog computing is designed to preprocess data close to the source of the data at end-user or edge devices.
The correct answer is: fog computing
Question 13
Correct
Mark 2.00 out of 2.00
True or False?
Web scraping tools are used to extract and manipulate structured data.
Select one:
◯ false
true
Refer to curriculum topic: 3.1.3
Collected data can be categorized as structured or unstructured. Both categories of data can be collected from different file formats that may not
necessarily be compatible with one another. Structured data may be manipulated using comma-separated values (CSV), whereas web scraping tools are used to extract unstructured data.

The correct answer is: false

Question 14 Correct	
Correct	
Mark 2.00 out of 2.00	
Which type of data car	n be used by a business to support managerial analysis tasks and organizational decision making?
Select one:	
analyzed data	·
saved data	
transactional data	а
raw data	
Refer to curriculum top	pic: 3.1.3
	types of processed data, transactional and analytical. Transactional information is captured and processed as events happen. ion is used to analyze daily sales reports and production schedules to determine how much inventory to carry. Analytical
information supports males personnel.	nanagerial analysis tasks like determining whether the organization should build a new manufacturing plant or hire additional
The correct answer is:	analyzed data
Question 15	
Correct	
Mark 2.00 out of 2.00	
Mark 2.00 out of 2.00	
	ata management problems associated with big data storage?
	ata management problems associated with big data storage?
What characterizes da	ata management problems associated with big data storage? a is accessible from anywhere at anytime
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What characterizes da Select one: ensuring that data making data only	a is accessible from anywhere at anytime
What characterizes da Select one: ensuring that data making data only maintaining the ir	a is accessible from anywhere at anytime available to authorized users
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What characterizes da Select one: ensuring that data making data only maintaining the ir generating and co Refer to curriculum top Because data can be go data sources. The correct answer is:	a is accessible from anywhere at anytime available to authorized users ntegrity of stored data ollecting data from multiple sources oic: 3.1.2 generated and collected from multiple different sources, a management system must be used to organize and collate all of the generating and collecting data from multiple sources

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