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BigData\$ Id	
	Tuesday, 6 June 2023, 12:58 PM
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	38.00/44.00
	<b>86.36</b> out of 100.00
Question <b>1</b>	
Correct	
Mark 2.00 out of 2.00	
Which type of inform:	ation is captured and stored as events happen?
which type of illioning	auditis captured and stored as events nappern:
Select one:	
critical	
analytical	
analytical	
comparative	
transactional	
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Question 3
Correct
Mark 2.00 out of 2.00
What is true of Big Data in comparison to traditional data?
Select one:
Traditional data is represented through binary strings, whereas Big Data is represented through hexadecimal strings.
Both types of data require the same hardware for processing and storage.
Big Data requires a different approach to analysis, computing, and storage mechanisms.
Big Data means that the data sets are being sent through the network in larger packets than the sets that contain legacy data.
Refer to curriculum topic: 1.2.1  Scale defines the difference between Big Data and the data that existed before the term Big Data existed. Based on the increased volume and type of data, big data requires a different approach to data analysis, computing, and storage. Different hardware and applications are required to handle the quantity of data produced. Both types, however, still involve binary strings. There is no difference between Big Data packets and packets that are not Big Data.
The correct answer is: Big Data requires a different approach to analysis, computing, and storage mechanisms.
Question 4
Correct
Mark 2.00 out of 2.00
What is a characteristic of structured data?
Select one:  Structured data is subject to intellectual property restrictions.
It has a predefined organization.
It is raw data.
It generates new knowledge.
Refer to curriculum topic: 1.2.3  Structured data is data that is structured and can be entered, classified, and queried by a computer. Data that is found in databases and spreadsheets is an example of structured data.
The correct answer is: It has a predefined organization.
Question 5
Correct
Mark 2.00 out of 2.00
What is Hadoop?
Colort and
Select one:  a method of preventing loops when analyzing Big Data
a groundbreaking method of moving large amounts of data through micro loops
a framework that allows distributed processing of data across clusters of computers
a method of sharing data across multiple companies using computing resources housed within each respective company
Refer to curriculum topic: 1.3.2  Data management and analysis today are characterized by the use of flat file databases, relational database management system (RDBMS), and the Hadoon framework that allows distributed processing of data across clusters of computers using simple programming models

The correct answer is: a framework that allows distributed processing of data across clusters of computers

Question <b>b</b> Correct  Mark 2.00 out of 2.00
What is a purpose of applying data anonymization process to a data sets?
Select one:
to compress the data sets
to reduce the size of the data sets
oto remove identifiable personal information
to adjust the value length of certain data fields
Refer to curriculum topic: 1.2.2
Data anonymization is a process of either encrypting or removing identifiable personal information from data sets to achieve privacy protection.
The correct answer is: to remove identifiable personal information
Question 7
Incorrect
Mark 0.00 out of 2.00
A multi-campus school wants to perform analytics on classes held during the past 5 years. The school wants to know which classes filled up the quickest across all campuses and which classes filled up the quickest at each campus. The school also wants to know if there is a relationship between the number of passing students and the speed in which a class taught by a particular teacher fills. If the school could only choose one type of database to store the data on one server, which type would be best suited for this task?
Select one:
○ flat
Olocal
○ Hadoop
relational
Refer to curriculum topic: 1.3.2  A relational database, even though it has multiple, connected tables, can reside on one server and would be best for this type of data. A local database is typically used to collect and store local data, for example, a database of all movies and music for a particular family. A flat database would most likely not be used in a multi-location school to store student data such as this. Hadoop is best to use when distributing processing power across
server clusters.
The correct answer is: relational
Question 8
Correct  Made 2.00 out of 2.00
Mark 2.00 out of 2.00
Which statement describes the paradigm that is promoted in the Cisco Fog Computing Model?
Select one:
All data analysis and decision making should take place near the data source.
O Some data analysis should take place at the edge of infrastructure rather than at a central location.
Data generated by edge devices should be sent to the nearest regional data analysis center for data aggregation.
Data collected at the edge of the infrastructure should be stored in a central data center for security and backup operations.
Refer to curriculum topic: 1.2.4  The Cisco Fog Computing Model states that some of the analysis work should take place at the network edge instead of at a centralized location.

Sensors and controllers at the edge can make smart decisions based on the data collected locally, factors that facilitate faster response and action.

The correct answer is: Some data analysis should take place at the edge of infrastructure rather than at a central location.

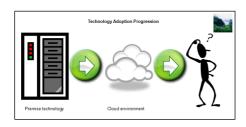
Question 9	
Correct	
Mark 2.00 out of 2.00	
How do sensors relate to Big Data?	
Select one:	
They are types of multimedia applications that are sources for Big Data.	
	,
They are devices that collectively generate large amounts of data.	
They are devices that can only be used with static data.	
They produce structured data.	
Refer to curriculum topic: 1.2.1  The use of sensors in IoT systems is growing exponentially. Each sensor has a multiplicative effect on the amount of data generated. Sensors are	
quickly becoming the greatest contributors toward Big Data.	
The correct answer is: They are devices that collectively generate large amounts of data.	
Question 10	
Correct	
Mark 2.00 out of 2.00	
Which two statements describe characteristics of data in motion? (Choose two.)	
Which the statement describe sharacteristics of data in motion. (Choose the.)	
Select one or more:	
Its value changes over time.	
It is stored at a central data center.	
It requires real-time processing close to the source.	
It is the data in RAM during a data analysis process.	
It is stored in removable devices for easy transportation.	
Potes to curriculum tonic: 1.2.4	
Refer to curriculum topic: 1.2.4  Data in motion describes the status of data to be distributed among different locations, the need of data to be analyzed close to the source, and how its value changes dynamically over time.	,
The correct answers are: Its value changes over time., It requires real-time processing close to the source.	
Question 11	
Correct	
Mark 2.00 out of 2.00	
What are two examples of unstructured data? (Choose two.)	
Select one or more:	
∨ video content     ✓	
user account data	
SQL queries	
✓ blog entry	
customer account spreadsheet	
Refer to curriculum topic: 1.2.3	
Unstructured data is raw data, data that is not organized in a predefined way. Examples of unstructured data would be contents of photos, audio, video, web pages, blogs, books, journals, and white papers.	
Unstructured data is raw data, data that is not organized in a predefined way. Examples of unstructured data would be contents of photos, audio, video, web pages, blogs, books, journals, and white papers.  The correct answers are: video content, blog entry	

Question 12
Correct
Mark 2.00 out of 2.00
war 2.00 Out 0/ 2.00
What is a characteristic of open data?
Select one:
odata that lacks intellectual property restrictions
data that lacks predefined organization
data that does not need to be stored
data that does not generate new knowledge
Refer to curriculum topic: 1.2.2
Open data is not protected by intellectual property restrictions and can be used and redistributed without legal, technical, or social restrictions.
The correct answer is: data that lacks intellectual property restrictions
Question 13
Correct
Mark 2.00 out of 2.00
In the data analysis process, which sequence depicts the work flow suitable for data at rest?
Select one:
act > analyze > store > notify
analyze > notify > act > store
notify > store > act > analyze
store > analyze > notify > act
Refer to curriculum topic: 1.2.4
Data at rest is static data that is stored in a database first and then analyzed and interpreted. Data at rest follows the traditional analysis flow of store
> analyze > notify > act. Once the data is analyzed, decision makers are notified and determine whether action is needed.  The correct answer is: store > analyze > notify > act
The correct diswer is. Store 2 distrig 2 det
Question 14
Correct
Mark 2.00 out of 2.00
What are two key components in creating data analysis tools from scratch? (Choose two.)
Select one or more:
✓ coding •
✓ modeling
data sets
performance
program length
Defer to gurrioulum topic: 1.2.2
Refer to curriculum topic: 1.3.2  Modeling and coding are the two key components in the process of creating data analysis tools from scratch. Modeling consists of deciding what to
do with the data to achieve the desired results and conclusions. A well-developed model can be used to handle multiple types of data sets. The code
is the program that implements the model and processes the data according to the model already developed. The length and performance are factor

and features of a program.

The correct answers are: coding, modeling

Question 15	
Correct	
Mark 2.00 out of 2.00	



Refer to the exhibit. To remain competitive, a company has progressed from on-premise technology to the cloud environment. What technology environment would a manager need to consider to accommodate long-term storage and immediate analysis of data in motion.

Select one:
an analytic model
○ a hybrid model
the fog model
a cloud model will accompish both requirements
on-premise clouds
Refer to curriculum topic: 1.3.1
A manager should consider a hybrid option that includes cloud computing for long-term storage of data and fog computing for immediate access to streaming data. The immediate access to the data at the company edge would allow for rapid analysis for time-sensitive applications.
The correct answer is: a hybrid model
Question 16
Correct
Mark 2.00 out of 2.00
Which statement describes SQLite?
Select one:
It is an example of flat file database.
☐ It is an embedded SQL database engine.
It is a free version of RDBMS suitable for enterprises.
It is a fully functional RDBMS for distributed data processing.
Refer to curriculum topic: 1.3.2

SQLite is an embedded SQL database engine in that it does not follow the traditional client/server model like SQL RDBMS (relational database management system). SQLite reads and writes directly to ordinary disk files.

The correct answer is: It is an embedded SQL database engine.

Question 17
Incorrect
Mark 0.00 out of 2.00
Which term describes the growth rate of data in the IoT?
Select one:
linear
_ cyclical
uniform
exponential
Refer to curriculum topic: 1.1.2
Current trends and forecasts all indicate that today data grows exponentially.
The correct answer is: exponential
Question 18 Correct
Mark 2.00 out of 2.00
THUR 2.00 GR OF 2.00
What are three examples of a NoSQL database? (Choose three.)
Select one or more:
Ceph
HDFS
Y Redis
✓ MongoDB
GlusterFS
✓ Apache Cassandra
Refer to curriculum topic: 1.3.2
MongoDB, Apache Cassandra, and Redis are examples of a NoSQL database. The Hadoop Distributed File System (HDFS), Ceph, and GlusterFS
are examples of distributed file systems (DFS).
The correct answers are: Redis, MongoDB, Apache Cassandra
Question 19
Correct
Mark 2.00 out of 2.00
Which characteristic of big data describes different types of datasets that include both structured and unstructured data?
Select one:
velocity
volume
○ variety
veracity
Refer to curriculum topic: 1.2.1
The characteristics of big data can be described in four Vs:
<ul> <li>Volume - the amount of data being transported and stored</li> <li>Velocity - the rate at which this data is generated</li> </ul>
Variety - the different types of data both structured and unstructured: video, audio, text
Veracity - the process of preventing inaccurate data from spoiling the data sets  The correct answer is: variety.
THE COLLECT AUSWELLS: VALIETY

Question 20	
Correct	
Mark 2.00 out of 2.00	
When is data considered to be information?	
Select one:	
when it is stored	
when it is recorded	
when it is processed and analyzed	~
when it is generated	
Refer to curriculum topic: 1.1.1  Data that has been processed, organized, analyzed, or presented in a meaningful way becomes information.	
The correct answer is: when it is processed and analyzed	
Question <b>21</b>	
Correct	
Mark 2.00 out of 2.00	
What is an example of data in motion?	
Select one:	
recording road traffic volumes and patterns for future highway planning	
medical information being transmitted from an ambulance to emergency department staff as a critically ill patient is being transported to the hospital	, <b>~</b>
hourly weather information being collected in preparation for the next day weather forecast for a specific location	
collecting sales and transaction records in preparation for a monthly sales report from sales consultants as they travel between customers	
Collecting sales and transaction records in preparation for a monthly sales report from sales consultants as they travel between customers	
Refer to curriculum topic: 1.1.1	
Data in motion is dynamic data that requires real-time processing before the data becomes obsolete. It represents the continuous interactions between people, processes, data and things. In this example the real-time medical information enables the emergency staff to be appropriately prepared before the patient arrives at the hospital.	
The correct answer is: medical information being transmitted from an ambulance to emergency department staff as a critically ill patient is being transported to the hospital	
Question 22	
Correct  Mark 2.00 out of 2.00	
What has contributed to the exponential growth in data generation?	
Select one:	
the increasing number of mobile devices	~
the increasing number of standalone devices	
the increasing number of isolated software applications	
the increasing number of physical installations for protecting environment facilities	
Refer to curriculum topic: 1.1.2  An increased number of sensors and other end devices as well as mobile devices are contributing to an exponential growth in data generation.	
The correct answer is: the increasing number of mobile devices	
◆ Chapter 1 Terms and Concepts Practice	
Jump to	

Read Chapter 2: Fundamentals of Data Analysis ▶

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