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|---------------------|--|
| Started on | Sunday, 10 November 2024, 7:52 AM |
| State | Finished |
| Completed on | Sunday, 10 November 2024, 7:57 AM |
| Time taken | 4 mins 59 secs |
| Marks | 17.00/25.00 |
| Grade | 3.40 out of 5.00 (68%) |

Question 1

Correct

Mark 1.00 out of 1.00

9. What is Hadoop primarily used for?

- ☒ a. Distributed processing of large data sets ✓
- ☐ b. Cloud storage
- ☐ c. Data visualization
- ☐ d. Real-time analytics

The correct answer is: Distributed processing of large data sets

Question 2

Correct

Mark 1.00 out of 1.00

15. What is one of the limitations of Hadoop?

- ☐ a. It requires specific hardware for use.
- ☐ b. It cannot handle structured data.
- ☒ c. It is not suitable for low-latency or real-time processing. ✓
- ☐ d. It is not suitable for processing large files.

The correct answer is: It is not suitable for low-latency or real-time processing.

Question **3**

Correct

Mark 1.00 out of 1.00

14. What kind of data is typically processed using Hadoop's MapReduce model?

- ☒ a. Large, batch-processed datasets ✓
- ☐ b. Unstructured data only
- ☐ c. Small, real-time datasets
- ☐ d. Relational database data

The correct answer is: Large, batch-processed datasets

Question **4**

Correct

Mark 1.00 out of 1.00

22. Which of the following is an example of a use case for stream processing in real-time analytics?

- ☐ a. Generating weekly business reports
- ☐ b. Analyzing historical data trends
- ☒ c. Fraud detection in banking transactions ✓
- ☐ d. Storing user profiles for an eCommerce website

The correct answer is: Fraud detection in banking transactions

Question **5**

Incorrect

Mark 0.00 out of 1.00

25. Which of the following technologies is built on top of Hadoop's distributed file system (HDFS)?

- ☒ a. Apache Spark ✗
- ☐ b. Microsoft Azure
- ☐ c. Hadoop MapReduce
- ☐ d. Google BigTable

The correct answer is: Hadoop MapReduce

Question 6

Correct

Mark 1.00 out of 1.00

21. Which of the following is NOT a typical use case for big data?

- ☒ a. Running small-scale queries on a relational database ✓
- ☐ b. Monitoring industrial equipment for malfunctions
- ☐ c. Tracking inventory in real time
- ☐ d. Analyzing customer behavior for targeted marketing

The correct answer is: Running small-scale queries on a relational database

Question 7

Correct

Mark 1.00 out of 1.00

23. What is a common application of big data in the retail industry?

- ☐ a. Generating weather forecasts for product distribution
- ☐ b. Storing historical sales data in relational databases
- ☐ c. Monitoring machine performance in factories
- ☒ d. Tracking customer preferences for personalized marketing ✓

The correct answer is: Tracking customer preferences for personalized marketing

Question 8

Correct

Mark 1.00 out of 1.00

18. What is an example of an in-memory database that can process OLTP and OLAP workloads?

- ☐ a. MongoDB
- ☒ b. SAP HANA ✓
- ☐ c. Redis
- ☐ d. Oracle DB

The correct answer is: SAP HANA

Question **9**

Correct

Mark 1.00 out of 1.00

20. What is the key characteristic of NoSQL databases compared to traditional SQL databases?

- ☒ a. They do not use SQL queries ✓
- ☐ b. They cannot scale horizontally
- ☐ c. They are faster but less reliable
- ☐ d. They handle structured data only

The correct answer is: They do not use SQL queries

Question **10**

Incorrect

Mark 0.00 out of 1.00

What does LDAP stand for? A. Local Domain Access Protocol

- ☒ a. Lightweight Directory Access Protocol ✗
- ☐ b. Logical Database Access Program
- ☐ c. Linked Directory Access Policy

The correct answer is: Logical Database Access Program

Question **11**

Correct

Mark 1.00 out of 1.00

What type of machine learning involves a labeled dataset?

- ☐ a. Clustering
- ☐ b. Reinforcement learning
- ☐ c. Unsupervised learning
- ☒ d. Supervised learning ✓

The correct answer is: Supervised learning

Question 12

Correct

Mark 1.00 out of 1.00

What is a benefit of using deep learning models?

- ☐ a. They are simpler to implement than traditional algorithms
- ☐ b. They are faster than all other models
- ☒ c. They can learn complex relationships between inputs and outputs ✓
- ☐ d. They require little to no data

The correct answer is: They can learn complex relationships between inputs and outputs

Question 13

Incorrect

Mark 0.00 out of 1.00

Which of the following is NOT a key exchange algorithm used in TLS? A. RSA

- ☒ a. AES ✗
- ☐ b. DHE
- ☐ c. PSK

The correct answer is: PSK

Question 14

Correct

Mark 1.00 out of 1.00

17. Which of the following is a common use case for NoSQL databases in retail?

- ☐ a. Generating financial reports
- ☒ b. Managing product catalogs, promotions, and supply chains ✓
- ☐ c. Maintaining customer credit card information
- ☐ d. Storing customer purchase history

The correct answer is: Managing product catalogs, promotions, and supply chains

Question **15**

Correct

Mark 1.00 out of 1.00

15. What type of applications typically use in-memory databases?

- ☐ a. Applications that require high transaction consistency
- ☐ b. Applications that require long-term data storage
- ☐ c. Applications that process large amounts of historical data
- ☒ d. Applications where response time is critical, like telecommunications ✓

The correct answer is: Applications where response time is critical, like telecommunications

Question **16**

Correct

Mark 1.00 out of 1.00

Which ML tool is specifically used for deep learning and neural networks?

- ☐ a. Clustering algorithms
- ☒ b. TensorFlow ✓
- ☐ c. Spark MLlib
- ☐ d. Apache Mahout

The correct answer is: TensorFlow

Question **17**

Correct

Mark 1.00 out of 1.00

13. What is the primary advantage of in-memory databases (IMDBs)?

- ☐ a. They store data on disk for reliability
- ☒ b. They provide low-latency, high-speed access by using main memory ✓
- ☐ c. They support complex transactions and large datasets
- ☐ d. They rely on disk-based storage for faster data retrieval

The correct answer is: They provide low-latency, high-speed access by using main memory

Question **18**

Incorrect

Mark 0.00 out of 1.00

What type of pages are generated by a simple web application architecture? A. Static pages

- ☒ a. Dynamic pages ✖
- ☐ b. Encrypted pages
- ☐ c. Cached pages

The correct answer is: Encrypted pages

Question **19**

Correct

Mark 1.00 out of 1.00

Which application of ML involves predicting patient treatment plans?

- ☐ a. Data clustering
- ☒ b. Determining treatments based on genetic makeup and demographics ✔
- ☐ c. Image classification
- ☐ d. Deep reinforcement learning

The correct answer is: Determining treatments based on genetic makeup and demographics

Question **20**

Correct

Mark 1.00 out of 1.00

8. Which of the following NoSQL databases is a popular key-value store?

- ☐ a. Neo4j
- ☐ b. MongoDB
- ☒ c. Redis ✔
- ☐ d. CouchDB

The correct answer is: Redis

Question **21**

Correct

Mark 1.00 out of 1.00

What is an essential task after building a machine learning model?

- ☒ a. Training and validating the model ✓
- ☐ b. Using random test data
- ☐ c. Immediately deploying it
- ☐ d. Ignoring data processing

The correct answer is: Training and validating the model

Question **22**

Incorrect

Mark 0.00 out of 1.00

Which logging tool is mentioned in the material? A. OpenSSL

- ☐ a. OpenID
- ☐ b. LDAP
- ☒ c. Log4j ✗

The correct answer is: OpenID

Question **23**

Incorrect

Mark 0.00 out of 1.00

Which is a typical scenario where LDAP would be beneficial? A. Frequently updating data entries

- ☒ a. Validating users at high frequency ✗
- ☐ b. Managing small user bases
- ☐ c. Encrypting data transmissions

The correct answer is: Encrypting data transmissions

Question **24**

Incorrect

Mark 0.00 out of 1.00

Which of these is NOT an Identity & Access Management product? A. Oracle Identity Cloud Service

- ☒ a. Zoho ✗
- ☐ b. IBM Security Identity and Access Assurance
- ☐ c. Okta

The correct answer is: Okta

Question **25**

Not answered

Marked out of 1.00

In reinforcement learning, how does the machine learn?

- ☐ a. By following a strict set of rules
- ☐ b. By interacting with an environment
- ☐ c. By learning from labeled data
- ☐ d. By analyzing static data

The correct answer is: By interacting with an environment

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