

Quiz Grade: 100.0% (A)

Quiz Submission

Database and Web Development & AI Session 2

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Total Questions: 10

Course Information

Course Title: Database and Web Development & AI Session 2
Course Code: PDWE 429
Credit Hours:

Quiz Questions, Student Answers, and Correct Answers

Question 1 of 10

Multiple Choice Question

Which of the following is a key characteristic of NoSQL databases?

Available Options:

(A) Fixed schema

(B) ACID transactions

(C) Horizontal scaling ← STUDENT SELECTED ← CORRECT ANSWER

(D) SQL-based queries

Student's Answer: Option C: Horizontal scaling

Correct Answer: Option C: Horizontal scaling

Question 2 of 10

Multiple Choice Question

In web development, what is the main purpose of using a CSS framework like Bootstrap?

Available Options:

(A) To enhance server-side scripting

(B) To manage database connections

(C) To simplify responsive design ← STUDENT SELECTED ← CORRECT ANSWER

(D) To create complex algorithms

Student's Answer: Option C: To simplify responsive design

Correct Answer: Option C: To simplify responsive design

Question 3 of 10

Multiple Choice Question

Which of the following is an example of a supervised machine learning algorithm?

Available Options:

(A) K-Means Clustering

(B) Decision Trees ← STUDENT SELECTED ← CORRECT ANSWER

(C) Apriori Algorithm

(D) Principal Component Analysis

Student's Answer: Option B: Decision Trees

Correct Answer: Option B: Decision Trees

Question 4 of 10

Multiple Choice Question

What is the primary function of an API in web development?

Available Options:

(A) To format database queries

(B) To facilitate communication between different software applications ← STUDENT SELECTED ← CORRECT ANSWER

(C) To design the layout of web pages

(D) To handle user authentication

Student's Answer: Option B: To facilitate communication between different software applications

Correct Answer: Option B: To facilitate communication between different software applications

Question 5 of 10

Multiple Choice Question

Which of these statements is true about relational databases?

Available Options:

(A) They are best suited for unstructured data

(B) They use a flexible schema

(C) They rely on table structures with defined relationships ← STUDENT SELECTED ← CORRECT ANSWER

(D) They cannot enforce data integrity

Student's Answer: Option C: They rely on table structures with defined relationships

Correct Answer: Option C: They rely on table structures with defined relationships

Question 6 of 10

Multiple Choice Question

What is the role of JavaScript in web development?

Available Options:

(A) To structure content

(B) To style content

(C) To add interactivity ← STUDENT SELECTED ← CORRECT ANSWER

(D) To store data

Student's Answer: Option C: To add interactivity

Correct Answer: Option C: To add interactivity

Question 7 of 10

Multiple Choice Question

Which of the following is a common use case for AI in web development?

Available Options:

(A) Creating static web pages

(B) Optimizing database queries

(C) Personalizing user experience ← STUDENT SELECTED ← CORRECT ANSWER

(D) Managing web servers

Student's Answer: Option C: Personalizing user experience

Correct Answer: Option C: Personalizing user experience

Question 8 of 10

Multiple Choice Question

What does CRUD stand for in the context of database operations?

Available Options:

(A) Create, Read, Update, Delete ← STUDENT SELECTED ← CORRECT ANSWER

(B) Connect, Retrieve, Upload, Download

(C) Compile, Run, Update, Debug

(D) Create, Run, Utilize, Destroy

Student's Answer: Option A: Create, Read, Update, Delete

Correct Answer: Option A: Create, Read, Update, Delete

Question 9 of 10

Text Answer Question

Explain the importance of data normalization in relational databases.

Student's Answer:

Data normalization organizes data into separate tables to avoid duplicate information. It improves data consistency, saves storage space, and makes the database easier to manage.

Correct Answer:

Data normalization helps to organize data efficiently, reduce redundancy, and ensure data integrity by structuring the database into tables and defining relationships between them.

Question 10 of 10

Text Answer Question

Describe how AI can be integrated into a web application to enhance user experience.

Student's Answer:

AI can improve a web application by providing personalized recommendations, chatbots, and smart search features. This helps users find information faster and enjoy a better experience.

Correct Answer:

AI can be integrated through features like chatbots for customer service, personalized content recommendations, predictive text inputs, and analyzing user behavior to tailor experiences to individual users.

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