Midterm Module A

Due Oct 20 at 11:59pm   **Points** 20   **Questions** 20
Time Limit 30 Minutes

Instructions

There are 20 questions in this module and you have 30 minutes to complete the quiz.

In all 3 module put together (A, B, and C), the question distribution is *roughly* as follows

- HTML/CSS/Flex (~15%)
- Networking/HTTP (~10%)
- Project structure (Client/Server/Setup/etc) (~10%)
- Database/DAO (~15%)
- Vue-related (~35%)
- REST/fetch/router/terms (~15%)

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	29 minutes	20 out of 20

Score for this quiz: **20** out of 20
Submitted Oct 16 at 5:18pm
This attempt took 29 minutes.

Question 1	1 / 1 pts

What is the most common type of DBMS?

◯ object-oriented

◯ hierarchical

Correct!

◉ relational

◯ network

Question 2   1 / 1 pts

The CSS code: `p.error { color: red; }` can be used in the following way:

Correct!

◉ <p class="error">...</p>

◯ <style p="error">...</style>

◯ <p style="error">...</p>

◯ <p id="error">...</p>

Question 3   1 / 1 pts

Which of the following statements is NOT true about packet-switching?

Correct!

◉ packet-switching is a connectionless protocol

◯ packets may arrive out of order

◯ a packet may be dropped (lost)

◯ a packet may be duplicated

Question 4   1 / 1 pts

Which of the following is NOT a required property for a database transaction?

Correct!

◉

Duplication - Data created should be duplicated across multiple instances

○ Isolation - Data involved should be locked while a transaction occurs

○ Consistent - A transaction should go from one valid state to another

○ Atomic - All steps of the transaction should take place or none should

Question 5   1 / 1 pts

What is the major difference between a GET request and a POST request?

Correct!

◉

The data sent in a POST request resides in the message body instead of the request line

○ A POST request can send data; a GET request cannot

○ A POST request can accept more MIME types than a GET request

○ A POST request is encrypted; a GET request is not

Question 6   1 / 1 pts

Most database management systems cannot express many-to-many relationships directly. What is a best practice for handling many-to-many

relationships in such cases?

○ create a column in one of the tables that can store an arbitrary number of foreign keys

○ create multiple columns in one of the tables that have foreign keys from the other table

Correct!   ⦿ create a third table with one foreign key from each of the other tables

○ create a third table that has a one-to-one relationship with each of the other tables

Question 7   1 / 1 pts

The <span> element is

○ a block-level element often used with CSS

○ a block-level element rarely used with CSS

Correct!   ⦿ an inline element often used with CSS

○ an inline element rarely used with CSS

Question 8   1 / 1 pts

Which of the following is NOT a basic principle of good web design?

○ Alignment - Every item should have a visual connection with something else on the page

○ Proximity - Group related items together

Correct!

◉ Functional - Every element on the page should serve a specific, well-thought-out purpose

○ Repetition - Repeat some aspect of the design throughout the entire piece

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Question 9   1 / 1 pts

Which SQL command gets all the records from a table called "Products" whose price is less than 10 dollars?

Correct!

◉ SELECT * FROM Products WHERE price < 10

○ RETURN ALL FROM Products IF price < 10

○ Product FILTER IF price < 10

○ FOR ALL Product WHERE price < 10

Question 10   1 / 1 pts

Which of the following is NOT true about the DAO pattern that we use in our bookstore project?

Correct!   ◉ All DAO classes inherit from a BaseDAO class

○ The model objects are immutable

○ The DAO interfaces are implemented using JDBC

○ DAO objects are accessed through the ApplicationContext singleton

Question 11   1 / 1 pts

Which of the following is NOT true about the DAO implementations we use in our bookstore project?

○ The find methods typically use Java's try-with-resources statement

○ The find methods typically return model objects or lists of model objects

○ Each find method corresponds to an SQL query (SELECT statement)

Correct!   ◉ The result set obtained from a query represents a single row from a table in the database

Question 12   1 / 1 pts

Which of the following are examples of lifecycle hooks that the Vue instance provides?

○ data and computed

○ import and export

Correct!   ● created and mounted

○ props and emits

Question 13   1 / 1 pts

Suppose my Vue instance contains data: { product: "Broccoli" }. Which of the following will print the header "Broccoli" in my HTML?

○ <h1> @product </h1>

Correct!   ● <h1> {{ product }} </h1>

○ <h1> :product </h1>

○ <h1> ${ product } </h1>

Question 14   1 / 1 pts

Props are used to pass information from parent components to child components. How do we get information from child components to parent components?

○ methods (updates)

Correct!   ● events (emits)

○ computed properties

○ mutable props

Question 15   1 / 1 pts

In Vue, you cannot bind an object to a class attribute

○ True

Correct!

◉ False

Question 16   1 / 1 pts

With v-bind, changes to the data update the value on the web page. What does v-model do?

Correct!

◉ v-model is used in form input and ensures 2-way binding between the form field and the data in the Vue instance

○ the same thing as v-bind, except that v-model is used exclusively for form input

○ v-model is used in form input so that user input to the form updates the data in the Vue instance

○ v-model is used in form input and ensures that the underlying SQL database is updated with the user input to the form

Question 17   1 / 1 pts

Which of the following is NOT considered one of the top 3 JavaScript frameworks?

Correct!

- ◉ W3.js

- ○ React.js

- ○ Angular.js

- ○ Vue.js

Question 18   1 / 1 pts

Which of the following is NOT one of the three properties typically found in a route (when using the Vue router)?

- ○ component

- ○ name

Correct!

- ◉ data

- ○ path

Question 19   1 / 1 pts

In a REST application, some client information is typically stored on the server to keep track of the client's session

○ True

Correct!   ⦿ False

Question 20   **1 / 1 pts**

What does the fetch method return?

Correct!   ⦿ a Promise

○ a Response

○ a JSON object

○ an array of objects

Quiz Score: **20** out of 20