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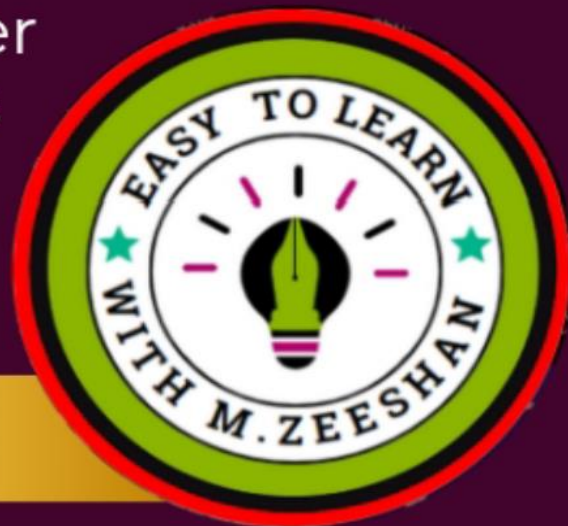
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# CS101 FINAL TERM QUIZ 4 2025

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Question # 1 of 10 ( Start time: 09:40:13 AM, 07 January 2025 )

Total Marks: 1

A track that leads to a simulation oriented methodology:

Select the correct option

<input checked="" type="radio"/>	Engineering
<input type="radio"/>	Theoretical
<input type="radio"/>	Intelligent
<input type="radio"/>	Proper

Correct Option: Option 1: Engineering

Explanation: A simulation-oriented methodology fundamentally relies on constructing and manipulating models, a process deeply rooted in engineering principles. Engineering provides the structured framework for designing, building, testing, and refining these simulations, encompassing aspects like data analysis, system design, and problem-solving. Options like "theoretical" or "intelligent" are too broad, while "proper" lacks specific relevance to simulation methodologies. Engineering uniquely emphasizes the practical, constructive nature of simulation development.

CS101 - Introduction to Computing (Semester Quiz # 04)

Quiz Start Time: 09:40 AM, 07 January 2025

Question # 2 of 10 ( Start time: 09:40:38 AM, 07 January 2025 )

Total Marks: 1

What is a queue's characteristic in terms of entry removal?

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Random access
<input type="radio"/>	Sequential access
<input checked="" type="radio"/>	First-in, first-out
<input type="radio"/>	Last-in, first-out

Correct Option: Option 3: First-in, first-out (FIFO)

A queue operates on the principle of FIFO. Elements are added to the rear (enqueue) and removed from the front (dequeue). This mimics a real-world queue where the first person in line is the first person served. Options 1 and 2 describe memory access patterns, not queue behavior. Option 4 describes a stack, not a queue. Therefore, FIFO is the defining characteristic of a queue's entry removal.

Question # 3 of 10 ( Start time: 09:41:00 AM, 07 January 2025 )

Total Marks: 1

Legal notations to control digital ownership are:

Select the correct option

<input type="radio"/>	Digital rules
<input checked="" type="radio"/>	Copyrights
<input type="radio"/>	Digital mediums
<input type="radio"/>	Ethics

Correct Option: Option 2: Copyrights

Copyrights are the established legal framework for protecting intellectual property, including digital works. They grant creators exclusive rights to control the reproduction, distribution, and adaptation of their original creations. Other options are incorrect as digital rules are a broad term, digital mediums refer to the format of content, and ethics are moral principles rather than legal tools. Copyrights specifically provide legal recourse against unauthorized use and ensure rightful ownership of digital content.

Question # 4 of 10 ( Start time: 09:41:29 AM, 07 January 2025 )

Total Marks: 1

The point at which all the steps in a transaction have been recorded in the log is called the \_\_\_\_\_.

Select the correct option

roll back

commit point

snapshot

schema

Correct Option: Option 2: commit point

A transaction involves multiple steps. The commit point signifies the successful completion of all these steps and their recording in the log. Crucially, after the commit point, the changes made by the transaction become permanent and visible to other transactions ensuring data consistency. Before reaching the commit point, changes can be rolled back in case of failures. A snapshot is a point-in-time view of data, and a schema defines the structure of the database, neither of which directly relate to transaction completion.

CS101 - Introduction to Computing (Semester Quiz # 04)

Quiz Start Time: 09:40 AM, 07 January 2025

Question # 5 of 10 ( Start time: 09:41:55 AM, 07 January 2025 )

Total Marks: 1

What is another name for a program counter in the context of CPUs?

Select the correct option

[Reload Math Equations](#)

Numeric register

Code counter

Index counter

Instruction pointer

Correct Option: Option 4: Instruction Pointer

Explanation: The program counter holds the memory address of the next instruction to be executed. "Instruction Pointer" (IP) more accurately reflects this function than "Code Counter" which is less precise. While it is a numeric register, "Instruction Pointer" is more specific to its purpose. "Index Counter" is used for array indexing, not instruction sequencing. Therefore, "Instruction Pointer" is the most accurate and widely accepted synonym for program counter.

CS101 - Introduction to Computing (Semester Quiz # 04)

Quiz Start Time: 09:40 AM, 07 January 2025

Question # 6 of 10 ( Start time: 09:42:19 AM, 07 January 2025 )

Total Marks: 1

In a two-dimensional array, what does the second index in a pair identify?

Select the correct option

[Reload Math Equations](#)

Column associated with the position

Field name

Numerical index number

Row associated with the position

Correct Option: Option 1: Column associated with the position

Explanation: In a two-dimensional array, often visualized as a grid or table, a pair of indices (row, column) is used to pinpoint a specific element. The **first index represents the row number**, and the **second index represents the column number**. Think of it like an Excel spreadsheet; the first number indicates the row, and the second indicates the column of a cell. Options 2, 3 and 4 do not accurately describe the function of the second index in a 2D array.

Question # 7 of 10 ( Start time: 09:42:41 AM, 07 January 2025 )

Total Marks: 1

The format in which information is displayed by spreadsheet programs is similar to the format used in the \_\_\_\_\_.

Select the correct option

Reload Math Equations

<input checked="" type="radio"/>	Relational model	<p>The correct answer is <b>Option 1: Relational model.</b></p> <p>Spreadsheet programs organize data in rows and columns, forming a table. This structure directly corresponds to the fundamental concept of a table in the relational model, where data is stored in relations (tables) with rows representing records and columns representing attributes. Each cell in a spreadsheet can be considered as the intersection of a specific row and column, similar to how data is accessed in a relational database using the combination of row and column identifiers. Other database models don't inherently represent data in this tabular format.</p>
<input type="radio"/>	Hierarchical model	
<input type="radio"/>	Object-oriented model	
<input type="radio"/>	Network model	

Question # 8 of 10 ( Start time: 09:43:07 AM, 07 January 2025 )

Total Marks: 1

An object-oriented database consists of objects linked to each other to reflect their \_\_\_\_\_.

Select the correct option

Reload Math Equations

<input type="radio"/>	sizes	<p>Correct Option: Option 4: relationships</p> <p>Explanation: Object-oriented databases are designed to store and manage objects, which encapsulate both data (attributes) and the methods that operate on that data. Crucially, these objects are linked together to represent the relationships between them, mirroring real-world associations. This interconnectedness allows for efficient retrieval of complex data structures and supports inheritance and polymorphism, fundamental concepts in object-oriented programming. Options 1, 2, and 3 are incorrect because while objects have sizes, colors, and attributes, the core principle of an object-oriented database lies in representing the connections between objects.</p>
<input type="radio"/>	colors	
<input type="radio"/>	attributes	
<input checked="" type="radio"/>	relationships	

Question # 9 of 10 ( Start time: 09:43:35 AM, 07 January 2025 )

Total Marks: 1

Object-oriented databases allow the entire software system to be designed in the \_\_\_\_\_ paradigm.

Select the correct option

Reload Math Equations

<input checked="" type="radio"/>	object-oriented	<p>The correct answer is <b>Option 1: object-oriented.</b></p> <p>Object-oriented databases are specifically designed to store and manage objects, which encapsulate both data (attributes) and methods (operations). This allows developers to model real-world entities directly within the database, mirroring the object-oriented paradigm used in software development. Utilizing objects for both data and software components promotes code reusability, modularity, and maintainability, core principles of object-oriented programming. Other paradigms like procedural, imperative, or relational don't inherently support this unified object-based approach.</p>
<input type="radio"/>	procedural	
<input type="radio"/>	imperative	
<input type="radio"/>	relational	

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