B6608019 พ. ม. เพต สพ ภัพ วั ทั้งพิพอก

Quiz 2: Computing Problems

Question 1:

- **What is the primary objective when solving a computing problem?**
- A) To increase the complexity of the problem
- B) To transform input data into output using a defined process
- C) To make the problem more challenging
- D) To use as much computational power as possible

Question 2:

- **Which type of problem involves finding the best solution from a set of possible solutions?**
- A) Algorithmic Problems
- B) Optimization Problems
- C) Decision Problems
- D) Computational Complexity

Question 3:

- **Which of the following is the correct order of steps in problem solving?**
- A) Implementation, Algorithm Design, Testing, Optimization, Problem Identification
- B) Problem Identification, Decomposition, Algorithm Design, Implementation, Testing and Debugging, Optimization
- C) Testing, Decomposition, Algorithm Design, Problem Identification, Optimization
- D) Optimization, Testing, Algorithm Design, Implementation, Problem Identification

Ouestion 4:

- **Which algorithm design technique involves breaking a problem into smaller subproblems and combining their results?**
- A) Greedy Algorithms
- B) Dynamic Programming
- C) Divide and Conquer
- D) Backtracking

Ouestion 5:

- **What does O(n) represent in the context of algorithm complexity?**
- A) The space complexity of an algorithm
- B) The worst-case time complexity of an algorithm
- C) The average-case time complexity of an algorithm
- D) The best-case time complexity of an algorithm

Ouestion 6:

- **Which sorting algorithm is NOT commonly used?**
- A) QuickSort
- B) MergeSort
- C) BubbleSort
- D) Breadth-First Search

Ouestion 7:

Which of the following tools is used for version control in software development?

- A) Git
- B) Eclipse
- C) JUnit
- D) GDB

Question 8:

- **Which search algorithm finds the shortest path in a graph?**
- A) QuickSort
- B) Binary Search
- C) Dijkstra's Algorithm
- D) Depth-First Search

Question 9:

- **What is the purpose of the Bag of Words or TF-IDF techniques?**
- A) To clean and tokenize text data
- B) To convert text data into numerical format
- C) To debug code
- D) To perform version control

Question 10:

- **What is an example of a decision problem in computing?**
- A) Finding the shortest path in a graph
- B) Sorting a list of numbers
- C) Determining if a number is prime
- D) Generating a word cloud

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