Started on	Thursday, 8 August 2024, 1:14 PM
State	Finished
Completed on	Thursday, 8 August 2024, 1:14 PM
Time taken	8 secs
Marks	0.00/8.00
Grade	**0.00** out of 100.00

Question 1

Not answered

Marked out of 1.00

True or False: Circuit Satisfiability is not a representation for a NP-hard problem as it can be solved in $O(n^2)$ time.

Select one:

- True
- False

The correct answer is 'False'.

Question 2

Not answered

Marked out of 1.00

The Class of P problems are (select the best answer):

Select one:

- a. Problems that can all be solved quickly in O(n) time.
- b. Are not included in the set of NP problems.
- c. The set of problems that can be solved in polynomial time.
- d. All of these responses.

Your answer is incorrect.

The correct answer is: The set of problems that can be solved in polynomial time.

Question 3

Not answered

Marked out of 1.00

True or False: NP-complete problems are a subset that is the intersection between NP problems and NP-Hard problems.

Select one:

- True
- False

The correct answer is 'True'.

Question 4

Not answered

Marked out of 1.00

True or False: The Cook-Levin Theorem states that Circuit satisfiability is NP-complete.

Select one:

- True
- False

The correct answer is 'True'.

Question 5

Not answered

Marked out of 1.00

Which of the following is NOT an NP-Complete, Hard problem?

Select one:

- a. Traveling Salesman Problem
- b. Knapsack
- c. Integer Linear Programming
- d. Minimum Spanning Tree

Your answer is incorrect.

The correct answer is: Minimum Spanning Tree

Question 6

Not answered

Marked out of 1.00

Which of the following is NOT a P (polynomial), easy problem?

Select one:

- a. Shortest Path
- b. Linear Programming
- c. Longest Path
- d. Euler Path

Your answer is incorrect.

The correct answer is: Longest Path

Question 7

Not answered

Marked out of 1.00

True or False: All P problems are included in the set of problems that are considered to be NP (nondeterministic polynomial).

Select one:

- True
- False

The correct answer is 'True'.

Question 8

Not answered

Marked out of 1.00

The Knapsack, Minimum Spanning Tree, Shortest Path, and Traveling Salesperson are all what kind of problem from an algorithms perspective?

Select one:

- a. Search
- b. Sort
- c. Matrix Multiplication
- d. Fast Fournier Transform

Your answer is incorrect.

The correct answer is: Search