13 Lecture - CS101

Important Mcqs

1.	Which	of the	following	is not a	tvpe	of algorithm?
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- A) Sorting algorithm
- B) Search algorithm
- C) Machine learning algorithm
- D) Linear algorithm

Answer: D) Linear algorithm

- 2. Which algorithm is used to find the shortest route between two cities?
 - A) Bubble sort
 - B) Quick sort
 - C) Gradient descent
 - D) Dijkstra's algorithm

Answer: D) Dijkstra's algorithm

- 3. Which algorithm is used to analyze and learn from data in order to make predictions or decisions?
 - A) Sorting algorithm
 - B) Search algorithm
 - C) Optimization algorithm
 - D) Machine learning algorithm

Answer: D) Machine learning algorithm

- 4. Which factor is not important to consider when designing an algorithm?
 - A) Efficiency
 - B) Accuracy
 - C) Scalability
 - D) Complexity

Answer: D) Complexity

- 5. Which sorting algorithm has the worst time complexity?
 - A) Quick sort
 - B) Bubble sort
 - C) Insertion sort
 - D) Selection sort

Answer: B) Bubble sort

- 6. Which search algorithm is more efficient for a sorted data set?
 - A) Linear search
 - B) Binary search
 - C) Hash-based search
 - D) All of the above

Answer: B) Binary search

- 7. Which optimization algorithm is inspired by the process of cooling metals?
 - A) Gradient descent
 - B) Simulated annealing
 - C) Genetic algorithms
 - D) Particle swarm optimization

Answer: B) Simulated annealing

- 8. Which machine learning algorithm is based on decision trees?
 - A) Neural networks
 - B) Support vector machines
 - C) Random forests
 - D) K-means clustering

Answer: C) Random forests

- 9. Which factor is most important to consider in real-time applications?
 - A) Efficiency
 - B) Accuracy
 - C) Scalability
 - D) Complexity

Answer: A) Efficiency

- 10. Which algorithm is used to find the optimal solution for a problem by evaluating all possible solutions?
 - A) Brute force algorithm
 - B) Greedy algorithm
 - C) Dynamic programming
 - D) Hill climbing algorithm

Answer: A) Brute force algorithm