1. In all pair shortest path problem, we try to find out

The shortest path from one vertex to all other vertices	The shortest path between every pair of vertices	The longest path from one vertex to all other vertices	The longest path between every pair of vertices

2. While modifying the values, the value chosen should be

Minimum	Maximum	Equal	None of the above

3. The Dijkastra algorithm is used to find

The shortest path from one vertex to all other vertices	The shortest path between every pair of vertices	The longest path from one vertex to all other vertices	The longest path between every pair of vertices

4. In binary search tree, the right subtree always contains the elements ____ the root node.

Lesser than	Greater than	Equal to	None of the above.

5. Out of these techniques, which one provides the fastest method for generating optimal binary search tree?

Greedy method	Dynamic programming	Branch and bound	Divide and Conquer

6. In binary search tree, the left subtree always contains the elements ____ the root node.

Lesser than	Greater than	Equal to	None of the above

7. If there are 3 key elements, then the number of possible binary search trees will be

3	4	5	6

8. Which algorithm can work on negative edges of a graph?

Dijkastra algorithm	Bellman Ford algorithm	Sreeman's algorithm	None of the above

9. Which approach is followed by Bellman Ford algorithm?

Greedy approach	Dynamic programming	Divide and Conquer	None of the above

10. In Bellman Ford algorithm, how many times, the edges are relaxed, if the number of vertices is 7?

5	6	7	8

11. In Bellman Ford algorithm, we always look for _____ value.

Minimum | Maximum | Equal | None of the above

12. In reliability design, we want the reliability to be

0 | 10 | Minimum | Maximum

13. In reliability design, what is considered for the devices to be used in setup?

Lower bound | Upper bound | Average bound | None of the above

14. For calculation of upper bound, which function is used?

Floor | Ceil | Sqrt | None of the above

15. The design of reliability is done to

Reduce the cost | Assurance | Product Differentiation | All of the above

16. If there are n keys in binary search tree, then there will be ____ dummy/square nodes.

n | n-1 | n+1 | n2

17. In Bellman Ford algorithm, what is the time complexity of a complete graph?

$O(n)$ | $O(n^2)$ | Correct $O(n^3)$ | $O(n^4)$

18. Which technique is used for solving all pair shortest path problem?

Greedy method | Dynamic programming | Divide-and-conquer strategy | None of the above

19. If there is no self loop between the vertices, then which value is assigned?

0 | 1 | ∞ | None of the above

20. If there are n keys in binary search tree, then there will be ____ dummy/square nodes.

n | $n-1$ | Correct $n+1$ | n^2

21. The reliability of whole system is the _____ of all the reliabilities.

Addition | Subtraction | Multiplication | Division