

1.
_____ notation is used to denote best case time complexity of an algorithm.

- A. Big omega
- B. Big theta
- C. Big alpha
- D. Big Oh

Answer: A

2.
To denote asymptotic tight bound of an algorithm which of the following notation is used?

- A. Big Omega
- B. Big Theta
- C. Little Theta
- D. Big Oh

Answer: B

3.
Time required to find largest element in an array having size "n" is

- A. $O(n-1)$
- B. $O(n)$
- C. $O(n/2)$
- D. $O(1)$

Answer: B

4.

If an algorithm neither takes minimum nor maximum amount of time to complete its execution, then it is referred as

- A. Average case time complexity
- B. Moderate case time complexity
- C. Asymptotic tight case time complexity
- D. None of the above

Answer: A

5.

Mathematical way to calculate time and space complexity of an algorithm without implementation is referred as:

- A. Mathematical Analysis
- B. Functional Analysis
- C. Asymptotic Analysis
- D. All of the above
- E. None of the above

Answer: C

6.

Measures of an analysis of an algorithm is/are:

- A. Time & Speed
- B. Time & Logic
- C. Time & Space
- D. None of the above

Answer: C

7.

If an algorithm do not contains any loop or recursive function call then time complexity of such algorithm is

- A. $O(1)$
- B. $O(n)$
- C. $O(\log n)$
- D. None of the above

Answer: A

8.

Which of the following option for an arrangement of time complexities in an ascending order

- A. $O(\log n)$, $O(n)$, $O(1)$, $O(2n)$
- B. $O(1)$, $O(2n)$, $O(n)$, $O(\log n)$
- C. $O(1)$, $O(\log n)$, $O(n)$, $O(2n)$
- D. None of the above

Answer: C

9.

Efficiency of an algorithm gets decided depends on

- A. Best case running time
- B. Worst case running time
- C. Best case running time
- D. All of the above
- E. None of the above

Answer: A

10.

For an algorithms having solution by using divide-and-conquer strategy, generally time complexity is:

- A. linear
- B. logarithmic
- C. constant
- D. None of the above

Answer: B

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