

Polling QUIZ MCQs

1. If an algorithm takes maximum amount of time to run to completion then it is referred as

- A. best case time complexity
- B. average case time complexity
- C. worst case time complexity
- D. all of the above
- E. none of the above

Answer: C

2. Which of the following notation is used to represent asymptotic tight bound?

- A. Big Oh (O)
- B. Big Omega (Ω)
- C. Big Theta (θ)
- D. None of the above

Answer: C

3. What is an asymptotic average case time complexity of a linear search algorithm?

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

Answer: C

4. An average case time complexity of a binary search algorithm is:

- A. $O(\log n)$
- B. $O(n)$
- C. $\theta(\log n/2)$
- D. $\theta(\log n)$

Answer: D

5. In a binary search algorithm worst case occurs

- A. if key is found at non-leaf position
- B. if key is found at leaf position
- C. if key is at root position
- D. if either key is found at leaf position or key does not exists.

Answer: D