1.	Wh	Which of the following algorithm is not in place algorithm?	
	A.	Bubble sort	
	В.	Merge sort	
	C.	Insertion sort	
	D.	Quick sort	

Answer: B

- 2. Which of the following algorithm follows "Divide and Conquer"?
  - A. Insertion sort
  - B. Merge sort
  - C. Quick sort
  - D. Both B and C
  - E. None of the above

Answer: D

- 3. Time complexity of binary search algorithm is
  - A. O(n)
  - B.  $O(n^2)$
  - C. O(log n)
  - D. O(n log n)

Answer: C

- 4. Which of the following algorithm will work in less amount of space?
  - A. Merge sort
  - B. Quick sort
  - C. Both
  - D. Only A

Answer: B

- 5. If element is found at last position of array in linear search the what will be the time complexity?
  - A. O(1)
  - B. O(n log n)
  - C. O(n)
  - D.  $O(n^2)$

Answer: C

- 6. When worst case situation will occur in quick sort?
  - A. Array is not sorted and pivot = left/right
  - B. Array is not sorted and pivot = mid
  - C. Array is sorted and pivot = left/right
  - D. Array is sorted and pivot = mid

Answer: C

- 7. What will be status of array (55, 44, 22, 66, 11, 33) after three passes in insertion sort?
  - A. 44, 55, 22, 66, 11, 33
  - B. 22, 44, 55, 66, 11, 33

- C. 44, 22, 55, 66, 11, 33
- D. None of the above

Answer: B

- 8. Which of the following sorting algorithm will work efficiently on pre-sorted array?
  - a. Selection sort
  - b. Bubble sort
  - c. Insertion sort
  - d. All of the above

Answer: c

- 9. For an array of n elements in ascending order, in how much time we can search a particular element?
  - a. O(1)
  - b. O(n)
  - c. O(log n)
  - d. None of the above

Answer: c

- 10. Addition and deletion of elements in array is not efficient?
  - a. False
  - b. True

Answer: b