**Sorting (MCQ)**

1. **Which of the following sorting algorithms is the fastest for sorting small arrays?**

a) Quick sort b) Shell sort c) Insertion sort d) Heap sort

2. **What is the advantage of selection sort over other sorting techniques?**

a) It is faster than any other sorting technique b) It is scalable

c) It works best for inputs which are already sorted

d) It requires no additional storage space

3. **Which of the following method is used for sorting in merge sort?**

a) partitioning b) merging c) exchanging d) selection

4. **Which of the following sorting algorithm does not use recursion?**

a) bottom up merge sort b) merge sort

c) heap sort d) quick sort

5. **Merge sort uses which of the following method to implement sorting?**

a) selection b) exchanging c) merging d) partitioning

**6. Which of the following sorting algorithms is the fastest?**

a) Merge sort b) Shell sort c) Insertion sort d) Quick sort

7. **Shell sort algorithm is an example of?**

a) Bottom-up sorting b) In-place sorting

c) Internal sorting d) External sorting

8. **Quick sort uses which of the following method to implement sorting?**

a) partitioning b) selection c) exchanging d) merging

**9. In heap sort, after deleting the last minimum element, the array will contain elements in?**

a) increasing sorting order b) tree preorder

c) tree inorder d) decreasing sorting order

10. **Which of the following sorting algorithm is used by C++ internally?**

a) quicksort b) merge sort c) introsort d) heap sort

**11. Which of the following sorting algorithm is stable?**

a) Introsort b) Tim sort c) Heap sort d) Quick sort

**12. Which of the following sorting algorithm uses the method of insertion?**

a) selection sort b) quick sort c) bubble sort d) cycle sort

13. **Which of the following pair of sorting algorithms are stable?**

a) gnome sort and merge sort b) heap sort and merge sort

c) gnome sort and quick sort d) merge sort and selection sort