Question 2:

a. Insertion Sort:

Best-case time complexity: O(n)
Average-case time complexity: O(n^2)
Worst-case time complexity: O(n^2)

b. Bubble Sort:

Best-case time complexity: O(n)
Average-case time complexity: O(n^2)
Worst-case time complexity: O(n^2)

Bubble Sort is generally considered worse than Insertion Sort due to the following reasons:

1) Comparisons: Bubble Sort makes more comparisons, leading to inefficient performance.
2) Early Termination: Bubble Sort does not terminate early when the array is sorted, leading to unnecessary work.

Question 3:

Time complexity:
Heap sort - O(n log n)
Merge Sort - O(n log n) in the worst, average, and best cases.
Quick Sort - average-case time complexity of O(n log n), worst-case - O(n^2)