All questions are done using **Master’s Theorem** taking all Three Cases.

1. T(n) = 3T (n/2) + n **- Θ(n log23) ~ Θ(n 2).**
2. T(n) = 64T (n/8) − n^2(log n) or T (n) = 64T (n/8) − n2(log n)  or T (n) = 64T (n/8) − n2 log n-1**- NA.**
3. T(n) = 2nT (n/2) + n^n - **NA.**
4. T (n) = 3T (n/3) + n/2 -  **Θ(nlogn)**
5. T (n) = 7T (n/3) + n^2 - **Θ(n 1.755) ~ Θ(n 2).**