PART 1 Solutions-

(a): T(n) = Θ(nlog23) = Θ(n1.585)

(b): T(n) = Θ(n2 log2n)

(c): Does not apply, since a is not constant

(d): T(n) = Θ(n logn)

(e): T(n) = Θ(n2)