2 (c) – How does the time complexity of your solution involving matrix multiplication in part (a) compare to your friend's algorithm?

The time complexity is also similar to N^3 but because the practical implementation is more cache aware of the naïve implementation, it is actually faster than the naïve implementation. It does not approach N^2.

2 (d) - Bibliographic coupling and co-citation can both be taken as an indicator that papers deal with related material. However, they can in practice give noticeably different results. Why? Which measure is more appropriate as an indicator for similarity between papers?

They give noticeably different results because they are completely different measures.