For Question 2.2 Use this

https://www.geeksforgeeks.org/find-paths-given-source-destination/

To find all possible paths from a vertex to every other vertex. It will Take $O(V^{\Lambda}V)$ time.

Repeat it for all possible vertices. SO total time complexity is $O((V^{N})^{*}V)$. (Quite high)

Now check if the path is valid and if yes calculate its cost. Then sort the paths lexicographically and print top k shortest paths.

Sorting will take its own time which is also high as the number of paths is high.