

IIITDM Kancheepuram
Design and Analysis of Algorithms
ASSIGNMENT
Assigned Date: 12th November 2024

General instructions:

1. Write your **Roll number** and **Name** on each sheet of the paper.
2. Submit all the answers as a single PDF (Scanned copy) file named with your roll number.

Q1) Identify and solve 40 previous GATE questions on DAA syllabus (i.e., Asymptotic notations, Masters theorem, Sorting, Greedy method, Dynamic programming, Graph algorithms, Theory of tractability (P, NP, NP-Complete, and NP-Hard), Branch and bound, and Backtracking. Follow fair distribution in number among the topics.

Q2) Choose any 2 problems which are not discussed as part of the class and prove them whether they are belonging to P / NP / NP-Complete / NP-Hard).

Note: Upload in Google class room and don't forget to Turn in.