

# UNIT-2 PYQ Analysis

## (Greedy Method)

Topic	2022	2023	2024	2025	Total	Probability
Huffman Coding	✓	✗	✓	✓	3	🔥 Very High
Job Sequencing	✓	✓	✓	✗	3	🔥 Very High
Prim's MST	✗	✓	✓	✗	2	★ High
Kruskal MST	✗	★	★	✗	2	★ High
Dijkstra	✓	✗	✗	✓	2	★ High
Optimal Merge Pattern	★	✗	✗	★	2	★ High

## (Greedy Method)

Topics:

- Huffman Coding
  - Job Sequencing
  - MST
  - Prim's
  - Kruskal
  - Dijkstra
  - Optimal Merge Pattern
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## Huffman Coding

Asked:

2022

2024

2025

Questions:

- Construct Huffman Tree.
  - Generate Huffman Codes.
  - Applications of Huffman Coding.
  - Decode text using Huffman Tree.
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## **Job Sequencing**

Asked:

2022

2023

2024

Questions:

- Solve Job Sequencing using Greedy.
  - Find Optimal Sequence.
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## **MST**

Asked:

2023

2024

Questions:

- Define Spanning Tree.
  - Construct MST using Prim's.
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## ★ Dijkstra

Asked:

2022

2025

Questions:

- Single Source Shortest Path.
- Apply Dijkstra on Graph.