

# UNIT-3 PYQ Analysis

## (Dynamic Programming)

Topic	2022	2023	2024	2025	Total	Probability
0/1 Knapsack	✓	✓	✓	✓	4	🔥 Very High
Floyd Warshall	✓	✗	✓	✓	3	🔥 Very High
Multistage Graph	✓	✗	✓	✗	2	★ High
Reliability Design	✗	✓	✗	✓	2	★ High
Dynamic Programming Concept	✓	★	★	★	4	🔥 Very High

## (Dynamic Programming)

Topics:

- 0/1 Knapsack

- Multistage Graph
  - Floyd Warshall
  - Reliability Design
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## **0/1 Knapsack**

Asked:

2022

2023

2024

2025

Questions:

- Solve using DP Table.
- Find Optimal Solution.

MOST REPEATED NUMERICAL.

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## **Floyd Warshall**

Asked:

2022

2024

2025

Questions:

- Explain Floyd Warshall.
  - Solve shortest path matrix.
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## ★ **Multistage Graph**

Asked:

2022

2024

Questions:

- Find minimum path cost.
  - Construct multistage graph.
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## ★ **Reliability Design**

Asked:

2023

2025

Questions:

- Explain Reliability Design using DP.