

CP7102 ADVANCED DATA STRUCTURES AND ALGORITHMS

REJINPAUL.COM IMPORTANT QUESTIONS

Semester/Department : I SEMESTER ME-CSE

UNIT I

1. Steps To Develop An Iterative Algorithms – (16 M)
2. Tree Traversals – (16 M) Or (8 M)
3. Towers Of Hanoi – (8 M)
4. Heap Sort And Priority Queues – (16 M)

UNIT II

1. Dijkstrs's shortest weighted path – (16 M)
2. Breadth first and Depth first search algorithms – (16 M)
3. Hill climbing – (16 M)
4. Developing Recursive Backtracking algorithm – (16 M)

UNIT III

1. Developing a Dynamic programming algorithms – (16 M)
2. NP Completeness – (8 M)
3. Biparite matching – (8 M)
4. Randomized algorithms – (8 M)

UNIT IV

1. Producer - consumer problem & Reader-writers problem – (8 M)
2. Discuss in detail about Locks – (16 M)
3. Discuss in detail about concurrency – (16 M)
4. Java Memory model – (8 M)

UNIT V

1. Discuss in detail about synchronization – (16 M)
2. ABA problem – (8 M)
3. Dual Data Structues – (8 M)