S.No.	Topic	Reference	Weigtage
1.	**Advanced Data Structures** Dynamic Tables Priority Queues Fibonacci Heaps	**Ch 19 [2]** **17.4 [2]**	**15**
2.	**Divide & Conquer** Counting Inversions Closest Pairs of Points Integer Multiplication	**5.3 [1]** **5.4 [1]** **5.5 [1]**	**15**
3.	**Greedy Technique** Proving Optimality using Stays Ahead and Exchange Arguments Interval Scheduling Huffman Codes	 **4.1 [1] Self Study** **4.8 [1]**	**10**
4.	**Dynamic Programming** Principles of Dynamic Programming Sequence Alignment Shortest Path in a Graph	 **6.2 [1] Self Study** **6.6 [1]** **6.8[1]**	**10**
5.	**Network Flows** Maximum Flow Problem and Ford Fulkerson Algorithm Maximum flows and Minimum Cuts in a Network Bipartite Matching	 **7.1[1]** **7.2[1]** **7.5[1]**	**15**
6.	**NP Completeness** Polynomial Time Reductions Reductions Via Gadgets (Satisfiability Problem) Efficient Certification and Definition of NP NP Complete Problems	**8.1[1]** **8.2[1]** **8.3[1]** **8.4[1] (till pg 466)**	**10**

Ref: [1]. Algorithm Design, Kleinberg and Tardos, Pearson Publication

[2]. Introduction to Algorithms, CLRS, 3rd Edition, PHI