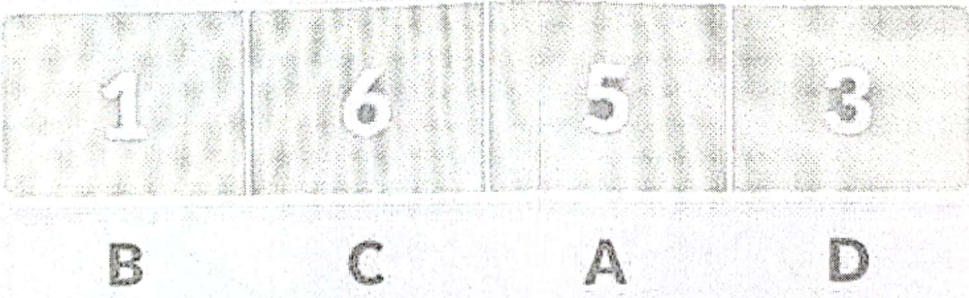
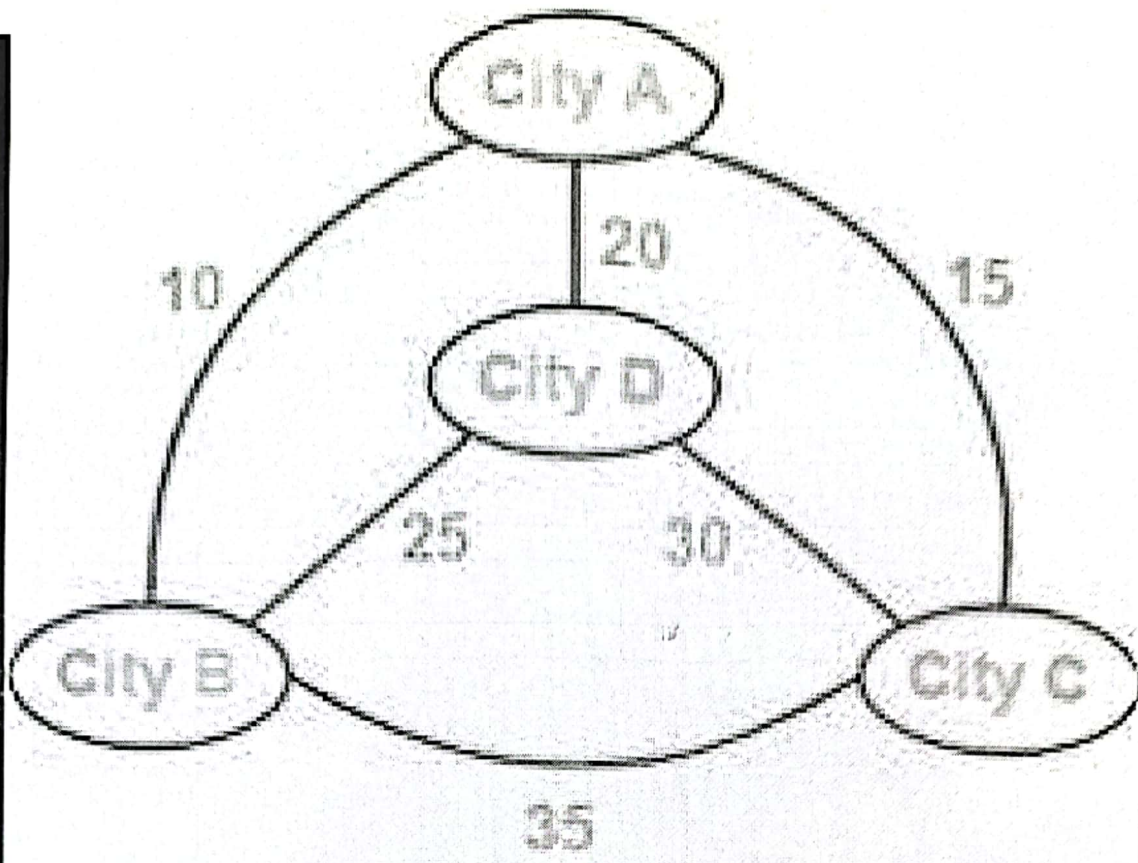




Time:		Max.Marks: 100																					
S.NO	Answer All Questions	Choice	Options	Marks	CO																		
1.	Discuss the purpose of PRAM model	choice Q-2		10Marks	CO1																		
2.	Demonstrate the time complexity with an example			10Marks	CO1																		
3.	Differentiate odd even merge and odd even merge sorting	choice Q-4		15Marks	CO1																		
4.	Discuss the characteristics of an algorithm and justify efficiency over few complexities			15Marks	CO1																		
5.	Demonstrate the Jarvin's march approach for constructing the convex hull	choice Q-6		10Marks	CO2																		
6.	Discuss the general concept of divide and conquer strategy			10Marks	CO2																		
7.	Implement Job Sequencing with Deadlines with an example	choice Q-8		15Marks	CO2																		
	<table border="1"> <thead> <tr> <th>Job</th> <th>J<sub>1</sub></th> <th>J<sub>2</sub></th> <th>J<sub>3</sub></th> <th>J<sub>4</sub></th> <th>J<sub>5</sub></th> </tr> </thead> <tbody> <tr> <td>Deadline</td> <td>2</td> <td>1</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td>Profit</td> <td>60</td> <td>100</td> <td>20</td> <td>40</td> <td>20</td> </tr> </tbody> </table>					Job	J <sub>1</sub>	J <sub>2</sub>	J <sub>3</sub>	J <sub>4</sub>	J <sub>5</sub>	Deadline	2	1	3	2	1	Profit	60	100	20	40	20
	Job					J <sub>1</sub>	J <sub>2</sub>	J <sub>3</sub>	J <sub>4</sub>	J <sub>5</sub>													
Deadline	2	1	3	2	1																		
Profit	60	100	20	40	20																		
8.	Elaborate the construction of Huffman codes for the given message with a tree  			15Marks	CO2																		
9.	Demonstrate ford Fulkerson algorithm by taking an example	choice Q-10		10Marks	CO3																		
10.	Discuss the purpose of travelling sales person problem			10Marks	CO3																		
11.	Explain the CDP problem in detail	choice Q-12		15Marks	CO3																		
12.	Demonstrate the pseudo procedure for optimal binary search tree			15Marks	CO3																		
13.	Discuss NP hard problem and justify its variants	choice Q-14		10Marks	CO4																		
14.	Discuss 0/1 knapsack problem using branch and bound			10Marks	CO4																		
15.	Demonstrate AOG concept with an example	choice Q-16		15Marks	CO4																		
16.	Implement the travelling sales person for the given dataset			15Marks	CO4																		



Travelling Salesman Problem

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