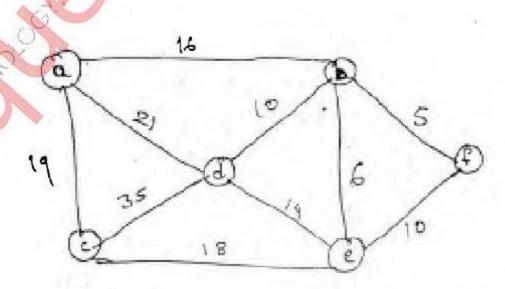
QP Code: 5180

(3 Hours)	[Total Marks : 80

В.:	(2)	Answer any three out of remaining questions.	
	(3)	Figures to the right indicate full marks.	(3)
(a)	(i) !	Degree of tree	3
9.5	(iii) I What is	Depth of tree s linked list? Give its applications.	3
(d)	What is	s Asymptotic Notations.	3
33 1272			3
(g)			2
(a)	Write a	program to implement Queue ADT using array	10
(b)			10
	Define for eac	AVL tree? Construct AVL free for following data [Mention type of rotation th case]	10 10
	(a) (b) (c) (d) (e) (f) (g) (a) (b)	(2) (3) (3) (4) Explain (i) (ii) (iii) (iii) (b) What i (c) Define (d) What i (e) Write o (f) What a (g) Define List the (a) Write a (b) Define Operat (a) Write a (b) Define for each	(2) Answer any three out of remaining questions.(3) Assume suitable data if necessary.

4. (a) Using Prim's and kruskall algorithm find minimum spanning tree for the following Graph 10



- (b) Write an algorithm to implement shell sort.
- 5. (a) Write a program to create singly linked list and display the list.
 - (b) Explain BFS and DFS algorithm with example.
- 6. Write short note on any four
 - (a) B-Tree
 - (b) Red Black Trees
 - (c) Searching Algorithms
 - (d) Sparse Matrix
 - (e) Euclids algorithm
 - (f) Merge Sort

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