

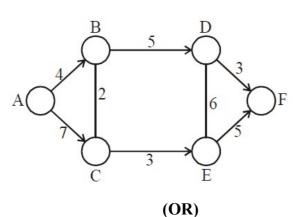
	Q. Cod	Q. Code: 290495				
		5	2			
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omplete?		5	2			
0 = 50 Marks)						
	Marks	CO	RBT LEVEL			
sed in algorithm analysis.	(10)	1	3			
R)						
57, 32, 83, 43) using quick sort.	(10)	1	3			
element. Justify the answer.						
ements 12, 22, 33, 44, 55, 66.	(10)	2	4			
the pseudo code also.	(10)	2	•			
et monition 2						
' at position 3. element '55'.						
chemient 55 .						
<)						
stack for the given expression.	(5)	2	4			
ole example.	(5)	2	4			
sie example.	(\mathbf{J})	2	-			
: 34, 30, 36, 28, 43, 40, 29, 32.	(10)	3	3			
traversals. Also, perform the	;					
ovide the pseudo code for the	•					
R)						
A J						

rations	in	detail.	Showcase	an	(10)	3	3
			2110		(10)	•	•

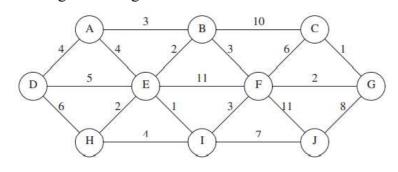
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4

Write a routine to find a shortest path between two given vertices in a weighted (10) 24. (a) 4 4 directed graph. Use it to find the shortest path between A and F in the following graph.



Find a minimum spanning tree for the given graph by considering D as a **(b)** (10) 4 starting node using Prim's algorithm.



25. (a) How do backtracking is applicable in n-queens problem. Explain your (10) 5 4 views with suitable example.

(OR)

Explain the branch and bound with an example. **(b)** (10) 5 4

PART- C (1 x 10 = 10 Marks)

(Q.No.26 is compulsory)

Marks CO RBT LEVEL Describe why it is a bad idea to implement a linked list version as queue which (10) 5 26. 2 uses the head of the list as the rear of the queue.

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