



University Term Test-II

SECOND HALF-2019

Term Test QP Code:-

Note the following instructions

1. Attempt any two questions.
2. Draw neat diagrams wherever necessary.
3. Write everything in ink (no pencil) only.
4. Assume data, if missing, with justification.

Q.1	<p>a) What is minimum spanning tree? Draw minimum spanning tree using Prime's and Kruskal's algorithm for the following graph.</p>	[10 M]
	<p>b) Define binary search tree. Find out inorder, preorder and postorder of the tree given below</p>	[10 M]
Q.2	<p>a) What is collision? What are the methods to resolve the collision? Explain linear probing with an example.</p>	[10 M]
	<p>b) Write an algorithm for Merge sort and comment on its time complexity.</p>	[10 M]
Q.3	<p>a) Explain DFS and BFS algorithm with an example.</p>	[10 M]
	<p>b) Explain quick sort using an example. Write an algorithm for it and comment on its complexity.</p>	[10 M]

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