Answer Key

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Roll No:

Department of Computer Science and Engineering CS2005 Data Structures and Algorithms

Quiz 2				
Time: 20 minutes		Maximum Marks: 10		
levels are numbered 1,2etc successiv (i) If there are I levels in the tr	can have 1,2, 3 or 4 children. The root is a vely . The control of the lowest and highest respectively			
	total number of nodes is n. Then the last	level in the tree is has level 1 Mark 1 Mark		
 Which of the following statements rea) Inorder traversal of a BST returns b) Finding the maximum element of c) Finding the the minimum element d) Finding the inorder successor of a Write True/False for the following state a) An undirected graph is acyclic if and 	egarding a BST is/are not true. the keys in the ascending order. the a BST with news takes O(logn) time. the a BST with height hakes O(h) time. the a BST with news of the ascending order. the a BST with news of time. The a BST with new time. The a BST with news of time. The a BST with new time. The a BST with new time. The a BST with news of time. The a BST with new time. The a BST	1 Mark Se J Mark Only if TFTT is Consect- 1 Mark		
5. The running time of BFS in a graph G a) O(V + E) b) O(V ²) c) O(=(V,E) represented using adjacency list is $ V E $ d) $O(E ^2)$	1 Mark		
 a) The minimum spanning tree of a g b) A minimum spanning tree of a graph c) A spanning tree of a graph is uniqued d) Kruskal's algorithm finds a spannin 7. Which of the following statements rea a) Inorder successor is always a leaf n b) Inorder successor is always a leaf n 	e. g tree of a graph egarding the inorder successor in a BST is true ode. false node or a node with empty right child. false ode or a node with empty left child. false	any thing else also ⇒0 any thing else also ⇒0 1 Mark		
8. Consider an undirected graph G=(V,I	E). If $ V =n$ and $ E =m$, then the sum of the	e degrees of all vertices in 1 Mark 人日		