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## Code No: 812AF JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, July/August - 2021 DATA STRUCTURES AND ALGORITHMS

Time: 3 Hours

Max. Marks: 60

## Answer any five questions All questions carry equal marks

1.	Write an algorithm to find the factorial of a number and also compute complexity of the same.	the time [12]
2.	Explain about the operations of Queue with an example.	[12]
3.	Explain the priority queue with an example.	[12]
4.	Explain the tree traversals of binary tree with an example.	[12]
5.	Explain about the Radix sort with an example.	[12]
6.	Construct the AVL tree of the following data: M,K,E,T,O,L,Q,A,Y,F,V.	[12]
7.	Explain the deletion operation of B-tree in different cases with an example.	[12]
8.	Explain about the Single Source Shortest path problem with an example.	[12]
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