Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

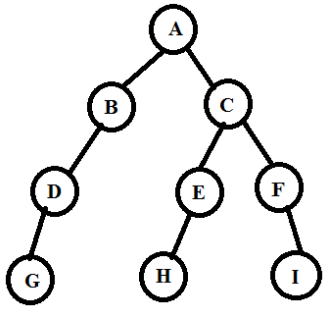
Year and Program: SY	**School of Technology**	**Department:** CSE
Course Code:CST207	**Course Title:** Data Structures	**Semester : III**
Day : Friday **Date :** 2nd July 2021	**End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Question Paper

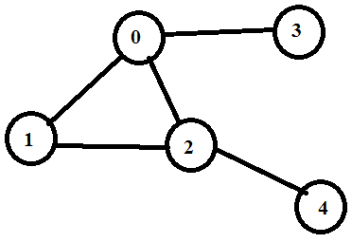
Instructions: 1) All Questions are compulsory.

2) Assume suitable data if required

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)-**			
a)	Explain Time Complexity and Space Complexity along with Example in detail	8	L2	CST207.1
b)	Compare Linear Search and Binary Search along with Example	8	L4	CST207.2
c)	Apply insertion sort to sort element of array in ascending order. 18 17 15 19 11 16 12 14 13	8	L3	CST207.2
Q.2	**Answer the following (any Two)-**			
a)	Make use of Infix to Postfix conversion to convert given string to postfix form (A+B*(C-D))/E	8	L3	CST207.3
b)	Relate Linear Queue and Circular in detail along with all operations and conditions	8	L2	CST207.4
c)	Explain Singly Linked List in detail along with insertion and deletion of node at end (write code)	8	L2	CST207.5
Q.3	**Answer the following (any Two)-**			
a)	What are tree Traversal techniques? Show Tree Traversals to traverse given tree.	9	L1	CST207.6



b)	Make use of Breadth First Search and Depth First Search algorithms to traverse node in given graph.	9	L3	CST207.1



c)	Illustrate Binary Search Tree with insertion and deletion of node in detail.	9	L2	CST207.6

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