Sanjay Ghodawat University, Kolhapur

2020-21

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

EXM/P/09/00

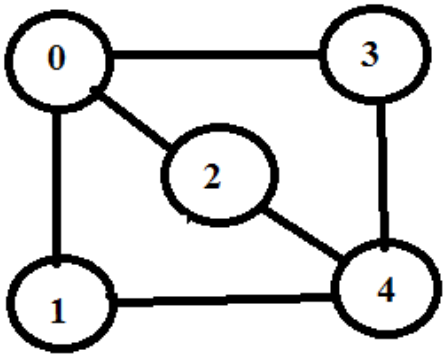
Year and Program: TY	**School of Technology** **CSE Minor**	**Department:** CSE Minor
Course Code:CST321	**Course Title:** Data Structures and Algorithms	**Semester :** V
Day : Saturday **Date :** 27th February 2021	**End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Question Paper

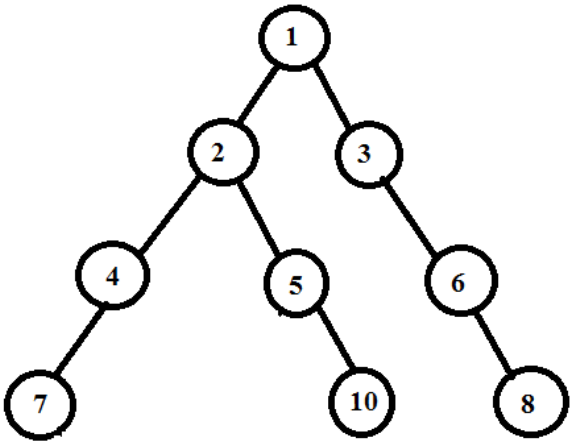
Instructions: 1) All Questions are compulsory.

2) Assume suitable data if required

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)-**			
a)	Explain in detail Data Types in C Programming Language	8	L2	CST321.2
b)	Make a use of for loop and while loop to display numbers from 11 to 20. (write different C codes)	8	L3	CST321.2
c)	Describe different types of operators in C along with examples	8	L2	CST321.2
Q.2	**Answer the following (any Two)-**			
a)	Correlate different representation of functions with respect to return value and arguments	8	L4	CST321.2
b)	Explain Binary Search along with Algorithm and Example	8	L2	CST321.1
c)	Apply Insertion Sort to sort elements of array in ascending order (Write all passes with explanation) 54 26 93 17 77 31 44	8	L3	CST321.1
Q.3	**Answer the following (any Two)-**			
a)	Explain operations of Stack and Queue in detail along with conditions.	9	L2	CST321.2
b)	Apply Breadth First Search algorithm to traverse node in given graph. (Write Algorithms and solve the problem)	9	L3	CST321.3



c) Describe Tree Traversal Techniques in detail. Identify In-order, Pre-order and Post-order traversals for given tree | 9 | L2 | CST321.3



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