

Master of Technology
First Semester Main Examination, Dec-2020
Advanced Data Structure and Algorithm [MTCSE102]

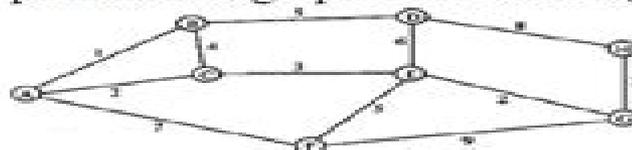
Time: 3:00 Hrs**Max Marks 70**

Note : Attempt any five questions out of eight.
 All questions carry equal marks.

Q.1 What is AVL search tree? Explain the complete process of insertion in AVL search tree by taking suitable example.

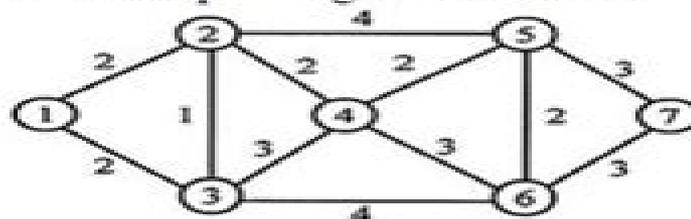
Q.2 What is recursion? Explain its type and differentiate between iteration and recursion? Explain how to remove recursion.

Q.3 Find the shortest path for the graph from vertex (G)



Q.4 What does it mean by Garbage Collection? Discuss marking phase and compaction phase of garbage.

Q.5 Find the minimum cost spanning tree with kruskal algorithm.



Q.6 What is hashing? Explain in detail open addressing technique to resolve hash clashes.

Q.7 Write the differences between internal sorting and external sorting.

Q.8 Write the short notes on the following:

- (i) Local search algorithm (ii) B-Trees (iii) OOPS (iv) Hashing

Mtech Question Papers

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