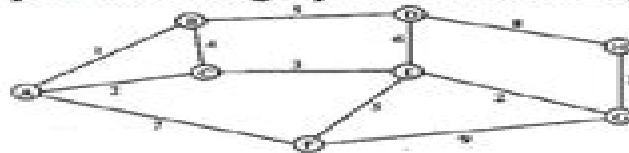


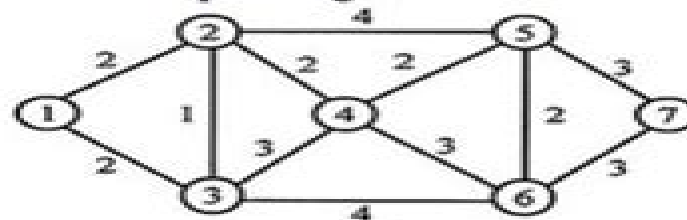
Master of Technology
First Semester Main Examination, Dec-2020
Advanced Data Structure and Algorithm [MTCSE102]

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

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