

Assignment No. 2

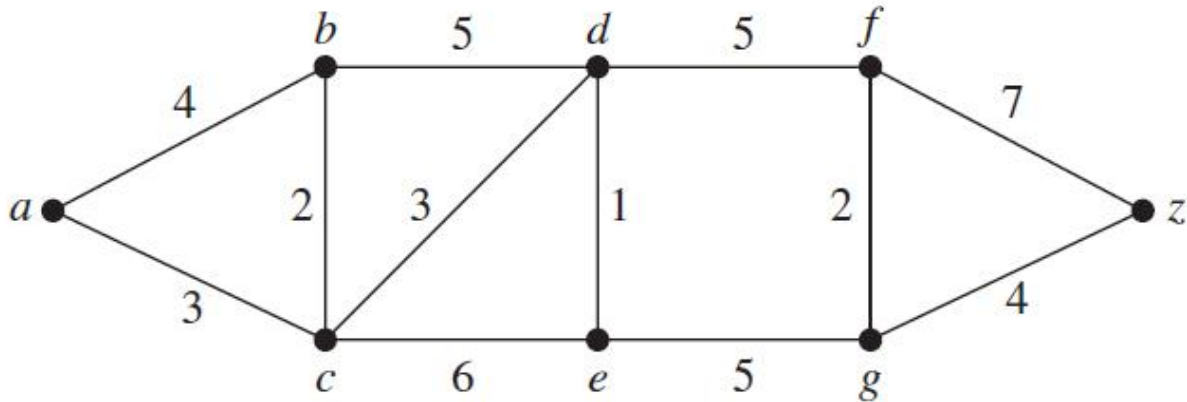
Course Code: EMTH403

Registration Number: _____

Instructions:

- Attempt all questions given below in your own handwriting. Assignment in typed format will not be considered for evaluation.
- The student has to complete the assignment in the allocated pages only. Any other page in case utilized shall not be considered.

Q1. Find the shortest path from the vertex 'a' to vertex 'z' using the Dijkstra's algorithm.



[10 Marks] [CO5, L3]

Signature of the Student _____ Page 1 of 2

Note:-

CO: is the Course Outcome as per your course syllabus.

L1-L6: Learning level objectives as per Revised Bloom Taxonomy (RBT).

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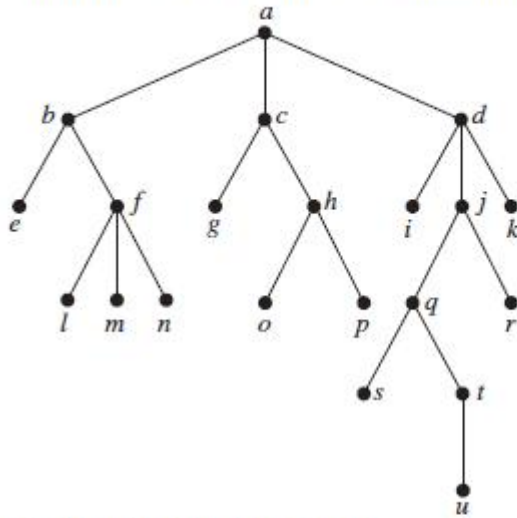
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Q2. Answer these questions about the rooted tree illustrated.



- Which vertex is the root?
- Which vertices are internal?
- Which vertices are leaves?
- Which vertices are children of j ?
- Which vertex is the parent of h ?
- Which vertices are siblings of o ?
- Which vertices are ancestors of m ?
- Which vertices are descendants of b ?

[10 Marks] [CO6, L2]

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