GTO MCQ Test

All Question are Mandatory.
Time Duration: 20 mins
No. of Questions:10 questions (1 mark each)

* Indicates required question

Email *

Tejas.teju02@gmail.com

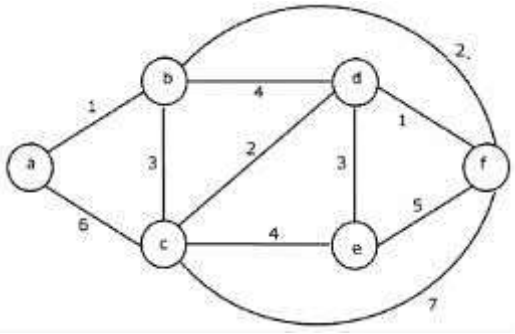
Dijkstra's Algorithm cannot be applied on _____ * 1 point

- ○ Graphs having negative weight function
- ○ Undirected and unweighted graphs
- ◉ Unweighted graphs
- ○ Directed and weighted graphs

Name *

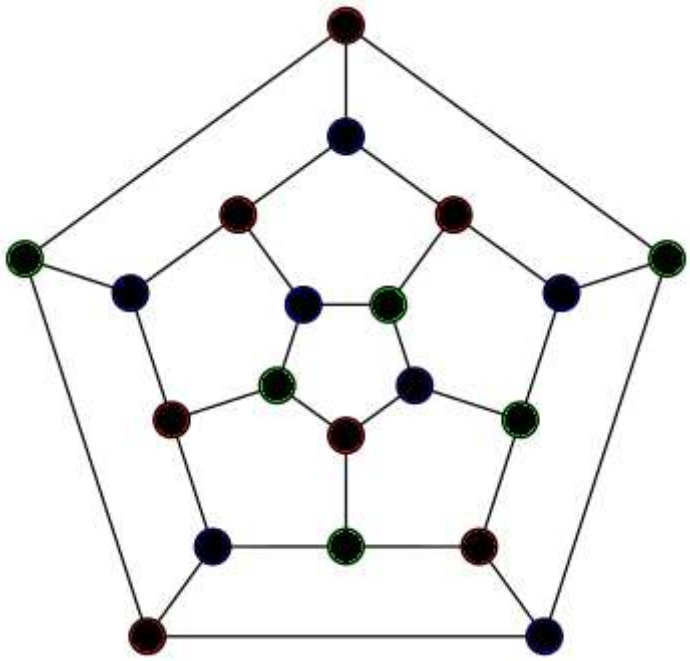
Tejas P R

Which one of the following cannot be the sequence of edges added, in that order, to a minimum spanning tree using Kruskal's algorithm? * 1 point



- (a—b),(d—f),(b—f),(d—c),(d—e)
- (a—b),(d—f),(d—c),(b—f),(d—e)
- (d—f),(a—b),(d—c),(b—f),(d—e)
- (d—f),(a—b),(b—f),(d—e),(d—c)

Chromatic number of the graph given below is _____ * 1 point



- 5
- 4
- 3
- 2

Programme and Section (Eg: CSE A-Section) *

Your answer

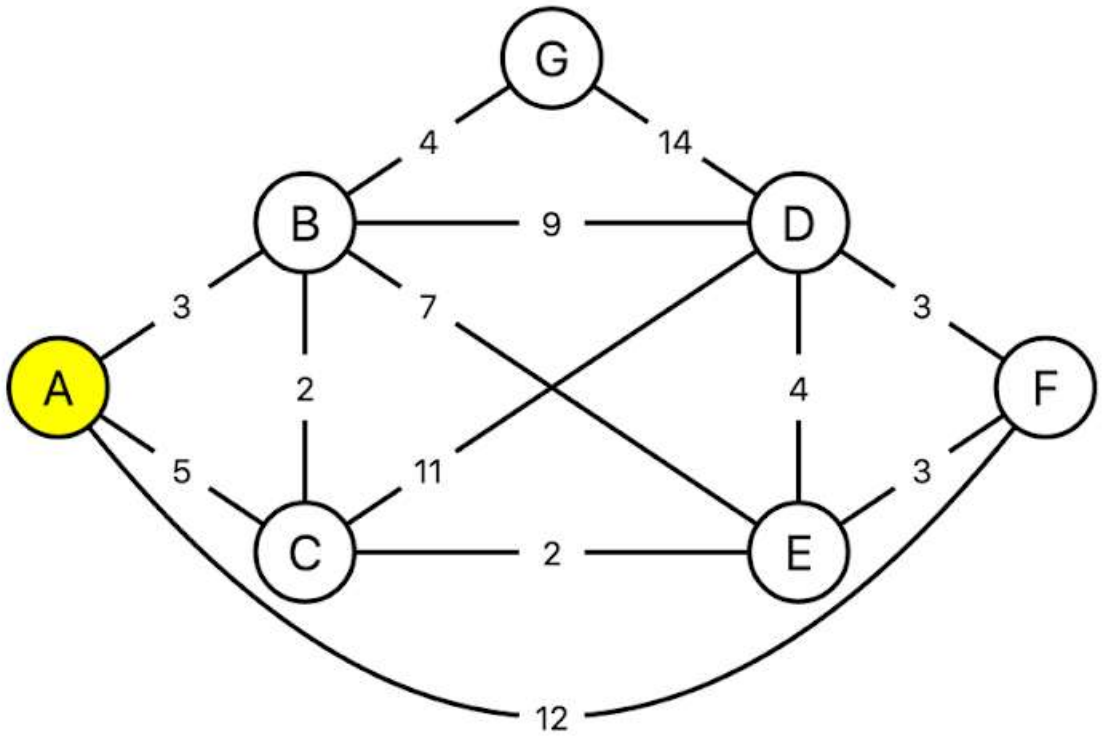
Registration Number *

Your answer

There _____ between each and every pair of vertices in a tree. * 1 point

- are n number of paths
- are two circuits
- is exactly one path
- is a self-loop

What is the shortest path from node A to node F? * 1 point



- A -> B -> D -> F
- A -> C -> E -> F
- A -> F
- A -> C -> B -> E -> F

Floyd Warshall's Algorithm can be applied on _____ * 1 point

- Directed graphs
- Undirected graphs
- Acyclic graphs
- Undirected and unweighted graphs

The _____ process takes two nodes as arguments and an edge connecting these nodes. * 1 point

- normalization
- shortening
- improvement
- relaxation

A graph containing 'n' vertices and 'm' edges will have _____ chords. * 1 point

- $n - 1$
- $n + m + 1$
- $m - 1$
- $m - n + 1$

The minimum number of colours used to obtain a proper colouring of a graph is known as _____. * 1 point

- Order
- Chromatic Polynomial
- Chromatic Number
- Colourability

Which of the following is false in the case of a spanning tree of a graph G? * 1 point

- It includes every vertex of the G
- It can be either cyclic or acyclic
- It is tree that spans G
- It is a subgraph of the G

Submit Clear form