CS 502 QUIZ NO 3 2021 SOLVED BY Sidhu Pak







SIdhu Pak vu Pasrur

BEST OF LUCK

Question # 1 of 10 (Start time: 11:49:31 AM, 13 August 2021) Total Marks: 1

A free tree with n _____ have exactly n-1 _____.

Select the correct option

- vertices,nodes
- edges,vertices
- nodes,vertices
- vertices,edges

Question # 2 of 10 (Start time: 11:50:50 AM, 13 August 2021) Total Marks: 1

In digraph G=(V,E) ;G has cycle if and only if

Select the correct option

- The DFS forest has both back and forward edge
- BFS forest has forward edge
- The DFS forest has forward edge.
- The DFS forest has back edge

Question # 3 of 10 (Start time: 11:52:09 AM, 13 August 2021) Total Marks: 1

By breaking any edge on a cycle created in free tree, the free _____ is restored.

Select the correct option

- Tree
- Edge
- Vertex
- Cycle

In strong components algorithm, first of all DFS is run for getting _____ times of vertices.

Select the correct option

- *Middle*
- *Start*
- *Both start & finish*
- *Finish*

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 11:54:17 AM, 13 August 2021) **Total Marks: 1**

Overall time for Kruskal algorithm is:

Select the correct option

Reload Math Equations

- $\theta(ElogV)$
- $\theta(logE)$
- $\theta(ElogE)$
- $\theta(VlogE)$

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 11:55:11 AM, 13 August 2021) Total Marks: 1

_____ technique is look like propagating wave-front outward.

Select the correct option

- Depth First Traversal
- Time Stamp Traversal
- Breadth First Traversal
- Generic Traversal

A topological sort of a DAG is a _____ ordering of the vertices of the DAG such that for each edge (u, v), u appears before v in the ordering.

Select the correct option

- ○ *Non-Linear*
- ○ *Parallel*
- ○ *Linear*
- ○ *Sequence*

Question # 8 of 10 (Start time: 11:56:37 AM, 13 August 2021) Total Marks: 1

Once you enter a strong component, every vertex in the component is _____.

Select the correct option

- reachable some times
- reachable
- removed
- not reachable

Question # 3 of 10 (Start time: 06:36:23 PM, 13 August 2021)

In _____ algorithm(s), at any time, the subset of edges A forms a single tree.

Select the correct option

- Prim's
- Kruskal's
- kruskal's and Prim's
- BFS

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CS502:Quiz No.2

Question # 9 of 10 (Start time: 06:41:01 PM, 13 August 2021)

In digraph G=(V,E) ;G has cycle if and only if

Select the correct option

- The DFS forest has back edge
- The DFS forest has both back and forward edge
- The DFS forest has forward edge.
- BFS forest has forward edge

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Question # 4 of 10 (Start time: 06:36:54 PM, 13 August 2021)

As the Kruskal's algorithm runs, the edges in viable set A induce a _____ on the vertices.

Select the correct option

- Graph
- Set
- Tree
- Forest

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In Timestamped DFS-cycles lemma, if edge (u, v) is a tree, forward or cross edge, then _____

Select the correct option

- ○ $f[u] < f[v]$
- ○ $f[u] > f[v]$
- ○ $f[u] \leqslant f[v]$
- ○ $f[u] \geqslant f[v]$

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CS502:Quiz No.2

Question # 8 of 10 (Start time: 06:40:20 PM, 13 August 2021)

Dijkstra's Algorithm cannot be applied on _____.

Select the correct option

- graphs having negative weight function
- undirected and unweighted graphs
- directed and weighted graphs
- unweighted graphs

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Question # 2 of 10 (Start time: 06:35:37 PM, 13 August 2021)

Bellman-Ford Algorithm does not allow G(graph) to have _____.

Select the correct option

- negative cost cycles
- positive weights edges
- negative weights edges
- positive cost cycles

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CS502 Quiz No.2

Question # 10 of 10 (Start time: 06:41:44 PM, 13 August 2021)

_____is commonly the running time of Dijkstra's Algorithm using the binary heap method.

Select the correct option

- Θ(E log V)
- Θ(Blog V)
- Θ(log E)
- Θ(Vlog)

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