

# VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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**HADI VU PAST PAPER**

## FINAL TERM PAST PAPER

We Deal All Kind of VU Project  
(PHP, .NET, ANDROID, PYTHON)

**MADE AND SOLVED BY HADI**

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



**WhatsApp: 03087122922**



**FACEBOOK ID:** <https://www.facebook.com/hadipastpapers/>

Best of luck!



PLEASE PRAY FOR MY MOTHER SHE WAS PASSED AWAY LAST YEAR. (HADI) <sup>2021</sup>

## Question # 7 of 10 ( Start time: 01:31:49 PM, 24 August 2022 )

Total Marks:

Forward edge is:

## Select the correct option

- (u, v) where u is a proper ancestor of v in the tree.
- (u, v) where v is a proper descendent of u in the tree.
- (u, v) where v is a proper ancestor of u in the tree.
- (u, v) where u is a proper descendent of v in the tree.



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Question # 9 of 10 ( Start time: 01:13:04 AM, 24 August 2022 )

Total Marks: 1

The relationship between number of back edges and number of cycles in DFS is,

Select the correct option

- Back edges are one quarter of cycles
- There is no relationship between no. of edges and cycles
- Back edges are half of cycles
- Both are equal



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## Question # 8 of 10 ( Start time: 01:47:02 AM, 24 August 2022 )

Total Marks: 10

The number of edges that come out of a vertex is called the \_\_\_\_\_ of that vertex in a digraph.

Select the correct option

- out-degree
- pre-degree
- post-degree
- in-degree



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## Question # 5 of 10 ( Start time: 01:10:26 AM, 24 August 2022 )

Total Marks: 1

Which of the following problems is NOT solved using dynamic programming?

## Select the correct option

<input checked="" type="radio"/>	Fractional knapsack problem
<input type="radio"/>	Matrix chain multiplication problem
<input type="radio"/>	Edit distance problem
<input type="radio"/>	0/1 knapsack problem



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## Question # 9 of 10 ( Start time: 01:48:56 AM, 24 August 2022 )

Total Marks: 1

The relationship between number of back edges and number of cycles in DFS is,

## Select the correct option

Back edges are half of cycles

Back edges are one quarter of cycles

There is no relationship between no. of edges and cycles

Both are equal



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Question # 6 of 10 ( Start time: 01:44:58 AM, 24 August 2022 )

Total Marks: 1

\_\_\_\_\_ components are not affected by reversal of all edges in terms of vertices reachability.

Select the correct option

First two

Last two

Weakly connected

Strongly connected

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Question # 5 of 10 ( Start time: 01:43:59 AM, 24 August 2022 )

Total Marks: 1

The \_\_\_\_\_ given by DFS allow us to determine whether the graph contains any cycles.

Select the correct option

- |                                  |                  |
|----------------------------------|------------------|
| <input checked="" type="radio"/> | Time stamps      |
| <input type="radio"/>            | Order            |
| <input type="radio"/>            | BFS traversing   |
| <input type="radio"/>            | Topological sort |



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Question # 6 of 10 ( Start time: 01:11:06 AM, 24 August 2022 )

Total Marks:

Traversing a graph means visiting \_\_\_\_\_ in the graph.

Select the correct option

- every node
- no node
- at least one
- more than one node



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Question # 2 of 10 ( Start time: 01:28:52 PM, 24 August 2022 )

Total Marks: 1

In Generic approach determining of Greedy MST, we maintain a subset A of \_\_\_\_\_ .

Select the correct option

- |                                  |          |
|----------------------------------|----------|
| <input checked="" type="radio"/> | Edges    |
| <input type="radio"/>            | Vertices |
| <input type="radio"/>            | Paths    |
| <input type="radio"/>            | Cycles   |



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Question # 2 of 10 ( Start time: 02:29:00 PM, 24 August 2022 )

Total Marks: 1

Which type of algorithm is harder to prove the correctness?

Select the correct option

- Brute Force
- Greedy
- Dynamic Programming
- Divide and Conquer



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## Question # 4 of 10 ( Start time: 04:53:24 PM, 07 September 2022 )

Total Marks: 1

Overall time for Kruskal algorithm is:

Select the correct option

[Reload Math Equations](#)  $\Theta(E \log E)$   $\Theta(V \log E)$   $\Theta(\log E)$   $\Theta(E \log V)$ **MADE BY HADI**

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## Question # 4 of 10 ( Start time: 01:08:59 AM, 24 August 2022 )

Total Marks: 1

For graph traversal, Breadth-first search strategy -----

## Select the correct option

- Cannot be non-recursive
- Can be both recursive and non-recursive
- is always recursive
- Cannot be recursive

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Question # 10 of 10 ( Start time: 01:13:43 AM, 24 August 2022 )

Total Marks: 1

Each vertex can reach every other vertex is called \_\_\_\_\_

Select the correct option

- Unconnected graph
- Ordered graph
- Unordered graph
- Connected graph



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Question # 1 of 10 ( Start time: 01:39:00 AM, 24 August 2022 )

Total Marks: 1

A free tree with  $n$  vertices have exactly \_\_\_\_\_ edges.

Select the correct option

- |                                  |         |
|----------------------------------|---------|
| <input checked="" type="radio"/> | $n - 1$ |
| <input type="radio"/>            | $n + 1$ |
| <input type="radio"/>            | $n$     |
| <input type="radio"/>            | $1$     |



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Question # 8 of 10 ( Start time: 04:58:19 PM, 07 September 2022 )

Total Marks: 1

In Prim's algorithm, If there is no edge from  $u$  to a vertex in  $S$ , we set the key value to \_\_\_\_\_.

Select the correct option

<input type="radio"/>	1
<input type="radio"/>	0
<input checked="" type="radio"/>	$\infty$
<input type="radio"/>	-1



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Question # 3 of 10 ( Start time: 01:41:10 AM, 24 August 2022 )

Total Marks: 1

Which of the following is true about graph?

Select the correct option

- A graph may contain no edges and many vertices
- A graph may contain many edges and no vertices
- A graph may contain no vertices and many edges
- A graph may contain no edges and no vertices



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Question # 5 of 10 ( Start time: 04:54:37 PM, 07 September 2022 )

Total Marks:

A free tree with  $n$  vertices have exactly \_\_\_\_\_ edges.

Select the correct

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



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Question # 3 of 10 ( Start time: 04:52:18 PM, 07 September 2022 )

Total Marks:

In strong components algorithm, the form of graph is used in which all the \_\_\_\_\_ of original graph G have been reversed in direction.

Select the correct option

- |                                  |                       |
|----------------------------------|-----------------------|
| <input checked="" type="radio"/> | Edges                 |
| <input type="radio"/>            | Both edges & vertices |
| <input type="radio"/>            | Trees                 |
| <input type="radio"/>            | Vertices              |



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Question # 10 of 10 ( Start time: 05:00:58 PM, 07 September 2022 )

Total Marks: 1

Problems such as the shortest route between cities can be solved efficiently by modeling the road map as a \_\_\_\_\_.

Select the correct option

 Tree Linked list Stack Graph

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## Question # 7 of 10 ( Start time: 01:45:58 AM, 24 August 2022 )

Total Marks: 1

In computing the strongly connected components of a digraph, vertices of the digraph are \_\_\_\_\_ into subsets.

## Select the correct option

<input type="radio"/>	Deleted
<input type="radio"/>	Created
<input checked="" type="radio"/>	Partitioned
<input type="radio"/>	Joined

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## Question # 3 of 10 ( Start time: 02:29:55 PM, 24 August 2022 )

Total Marks: 1

The \_\_\_\_\_ given by DFS allow us to determine whether the graph contains any cycles.

## Select the correct option

- Topological sort
- Order
- Time stamps
- BFS traversing



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## Question # 6 of 10 ( Start time: 02:31:48 PM, 24 August 2022 )

Total Marks:

Equivalence relation partitions the vertices into \_\_\_\_\_ classes of mutually reachable vertices and these are the strong components

## Select the correct option

- |                                  |                 |
|----------------------------------|-----------------|
| <input type="radio"/>            | Non equivalence |
| <input type="radio"/>            | Non classes     |
| <input type="radio"/>            | Variance        |
| <input checked="" type="radio"/> | Equivalence     |



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Question # 4 of 10 ( Start time: 02:30:28 PM, 24 August 2022 )

Total Marks:

In Activity scheduling algorithm, the width of a rectangle -----

Select the correct option

- Is always ignored
- Should be maximized
- Directs towards recursion
- Indicates the duration of an activity



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Question # 5 of 10 ( Start time: 02:31:14 PM, 24 August 2022 )

Total Marks: 1

A graph is \_\_\_\_\_ if every vertex can reach every other vertex.

Select the correct option

- Loop
- Acyclic
- Cycle
- Connected



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Question # 10 of 10 ( Start time: 01:49:29 AM, 24 August 2022 )

Total Marks: 1

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

Select the correct option

Reload Math Equations

- $f[u] < f[v]$
- $f[u] \leq f[v]$
- $f[u] > f[v]$
- $f[u] \geq f[v]$



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Question # 9 of 10 ( Start time: 01:33:14 PM, 24 August 2022 )

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 back edge The DFS forest has forward edge.

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Question # 10 of 10 ( Start time: 01:33:44 PM, 24 August 2022 )

Total Marks:

In context of activity selection algorithm, time is dominated by sorting of the activities by \_\_\_\_\_.

Select the correct option

- CPU Burst Times
- Finish Times
- Start Times
- Average Times



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Question # 9 of 10 ( Start time: 04:59:54 PM, 07 September 2022 )

Total Marks: 1

Edge weights can be interpreted as distance \_\_\_\_\_.

Select the correct option

- |                                  |                         |
|----------------------------------|-------------------------|
| <input checked="" type="radio"/> | in the shortest-paths   |
| <input type="radio"/>            | in depth-First Search   |
| <input type="radio"/>            | in breadth-First Search |
| <input type="radio"/>            | in Queue's              |



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Question # 7 of 10 ( Start time: 02:32:22 PM, 24 August 2022 )

Total Marks:

A free tree with n \_\_\_\_\_ have exactly n-1 \_\_\_\_\_.

Select the correct option

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



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Question # 4 of 10 ( Start time: 01:30:03 PM, 24 August 2022 )

Total Marks: 1

A free tree with n \_\_\_\_\_ have exactly n-1 \_\_\_\_\_.

Select the correct option

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

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Question # 6 of 10 ( Start time: 01:31:13 PM, 24 August 2022 )

Total Marks: 1

Which of the following algorithms solves the fractional knapsack problem most effectively?

Select the correct option

- |                                  |                     |
|----------------------------------|---------------------|
| <input checked="" type="radio"/> | Greedy algorithm    |
| <input type="radio"/>            | Backtracking        |
| <input type="radio"/>            | Dynamic programming |
| <input type="radio"/>            | Divide and conquer  |



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Question # 5 of 10 ( Start time: 01:30:44 PM, 24 August 2022 )

Total Marks: 1

Adding any edge to a free tree creates a unique \_\_\_\_\_ .

Select the correct option

Strong component

Vertex

Edge

Cycle



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## Question # 7 of 10 ( Start time: 04:57:03 PM, 07 September 2022 )

Total Marks:

Which of the following statement is true.

## Select the correct option

- Kruskal's algorithm is used to find minimum spanning tree of a graph, time complexity of this algorithm is  $O(EV)$
- Kruskal algorithm is multiple source technique for finding MST.
- Both I and II
- Kruskal's algorithm (choose best non-cycle edge) is better than Prim's (choose best Tree edge) when the graph has relatively few edges.

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Question # 6 of 10 ( Start time: 04:55:57 PM, 07 September 2022 )

Total Marks: 1

Kruskal's algorithm (choose best non-cycle edge) is better than Prim's (choose best tree edge) when the \_\_\_\_\_ has relatively few \_\_\_\_\_.

Select the correct option

- graph, edges
- graph, branches
- tree, edges
- tree, branches



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Question # 7 of 10 ( Start time: 01:11:49 AM, 24 August 2022 )

Total Marks: 1

You have an adjacency list for  $G$ , what is the time complexity to compute Graph transpose  $G^T$  ?

Select the correct option



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(V+E)



E



V



V.E



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Question # 3 of 10 ( Start time: 01:08:05 AM, 24 August 2022 )

Total Marks:

Which activity creates a unique cycle in a free tree:

Select the correct option

- |                                  |                     |
|----------------------------------|---------------------|
| <input type="radio"/>            | adding any sub tree |
| <input checked="" type="radio"/> | adding any edge     |
| <input type="radio"/>            | adding any vertex   |
| <input type="radio"/>            | adding root         |



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Question # 1 of 10 ( Start time: 04:49:26 PM, 07 September 2022 )

Total Marks: 1

Prim's algorithm is based on ----- strategy.

Select the correct option

- Dynamic programming
- Greedy
- Divide and Conquer
- Exponential



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Question # 8 of 10 ( Start time: 01:12:35 AM, 24 August 2022 )

Total Marks: 1

In Activity scheduling algorithm, each activity is represented by a \_\_\_\_\_

Select the correct option

- Rectangle
- Triangle
- Circle
- Square



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Question # 8 of 10 ( Start time: 01:32:45 PM, 24 August 2022 )

Total Marks:

A \_\_\_\_\_ cycle is a cycle that visits every edge of the graph exactly once.

Select the correct option

- Loop
- Undirected
- Eulerian
- Directed



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WE DEAL ALL KIND OF VU PROJECT  
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FOR ASSISTANCE

- 1) ASSIGNMENTS
- 2) QUIZZES
- 3) GDB
- 4) GRAND QUIZZES

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of VU Academic Activities  
include Assignments,  
Quizzes, GDBs, Grand Quizzes  
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