

VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU)

MID TERM PAST PAPER

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

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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.



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Best of luck!



Question # 5 of 10 (Start time: 02:04:57 AM, 27 December 2022)

Total Marks: 1

We can multiply two matrices A and B only when they are compatible which means:

Select the correct option

- | | |
|----------------------------------|--|
| <input checked="" type="radio"/> | Number of columns in A must be equal to number of rows in B |
| <input type="radio"/> | Number of rows in A must be equal to number of rows in B |
| <input type="radio"/> | Number of columns in A must be equal to number of columns in B |
| <input type="radio"/> | Number of rows and columns do not matter |

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Question # 1 of 10 (Start time: 02:00:22 AM, 27 December 2022)

Total Marks: 1

There are _____ entries in the Edit Distance Matrix.

Select the correct option

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | $\Theta(n+2)$ |
| <input type="radio"/> | $\Theta(n)$ |
| <input type="radio"/> | $\Theta(n + 100)$ |
| <input checked="" type="radio"/> | $\Theta(n^2)$ |

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Question # 4 of 10 (Start time: 02:04:04 AM, 27 December 2022)

Total Marks: 1

The only way to convert an empty string into a string of j characters is by doing j insertions, represented as _____.

Select the correct option

<input checked="" type="radio"/>	$E(0, j) = j$
<input type="radio"/>	$E(i, 0) = i$
<input type="radio"/>	$E(1, j) = j$
<input type="radio"/>	$E(i, j) = i$

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Question # 7 of 10 (Start time: 02:07:57 AM, 27 December 2022)

Total Marks: 1

Memoization is a part of _____ programming strategy.

Select the correct option

- | | |
|----------------------------------|---------|
| <input type="radio"/> | memory |
| <input type="radio"/> | fast |
| <input checked="" type="radio"/> | dynamic |
| <input type="radio"/> | slow |

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Question # 10 of 10 (Start time: 02:11:01 AM, 27 December 2022)

Total Marks: 1

Dynamic Programming algorithms often use some kind of _____ to store the results of intermediate sub-problems.

Select the correct option

<input type="radio"/>	loop
<input checked="" type="radio"/>	table
<input type="radio"/>	variable
<input type="radio"/>	stack

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Question # 6 of 10 (Start time: 02:06:42 AM, 27 December 2022)

Total Marks: 1

In chain matrix multiplication, table is filled _____ to find the multiplication of matrix.

Select the correct option

- | | |
|----------------------------------|--------------|
| <input type="radio"/> | row wise |
| <input type="radio"/> | diagonally |
| <input checked="" type="radio"/> | bottom-to-up |
| <input type="radio"/> | column wise |

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Question # 9 of 10 (Start time: 02:10:19 AM, 27 December 2022)

Total Marks: 1

Catalan numbers are related the number of different _____ on 'n' nodes.

Select the correct option

<input checked="" type="radio"/>	binary trees
<input type="radio"/>	linked lists
<input type="radio"/>	functions
<input type="radio"/>	arrays

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Question # 8 of 10 (Start time: 02:09:29 AM, 27 December 2022)

Total Marks: 1

If matrix A of dimension $p \times q$ is multiply with matrix B of dimension $q \times r$, then the dimension of resultant matrix is:

Select the correct option

- | | |
|----------------------------------|--------------|
| <input type="radio"/> | $p \times q$ |
| <input checked="" type="radio"/> | $p \times r$ |
| <input type="radio"/> | $q \times r$ |
| <input type="radio"/> | $r \times p$ |

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Question # 2 of 10 (Start time: 02:01:48 AM, 27 December 2022)

Total Marks: 1

_____ overcomes the limitations of _____ by working as per positional notations of numbers.

Select the correct option

- | | |
|----------------------------------|---------------------------|
| <input type="radio"/> | Counting sort, Radix sort |
| <input type="radio"/> | Radix sort, Counting sort |
| <input type="radio"/> | Radix sort, Bubble sort, |
| <input checked="" type="radio"/> | Bubble sort, Radix sort |

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