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B.ED(THESIS AND RESEARCH PROJECT)

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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 # 1 of 10 (Start time: 11:38:03 AM, 26 June 2022)

Total Marks: 1

Consider three matrices X, Y, Z of dimensions 1×2 , 2×3 , 3×4 respectively. The number of multiplications of $(XY)Z$ is:

Select the correct option

- | | |
|----------------------------------|----|
| <input type="radio"/> | 32 |
| <input type="radio"/> | 30 |
| <input type="radio"/> | 24 |
| <input checked="" type="radio"/> | 18 |

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Question # 10 of 10 (Start time: 08:47:10 PM, 08 June 2022)

Total Marks: 1

The O-notation is used to state only the asymptotic _____ bounds.

Select the correct option

- | | |
|----------------------------------|--------------------|
| <input type="radio"/> | Lower |
| <input checked="" type="radio"/> | Upper |
| <input type="radio"/> | Both lower & upper |
| <input type="radio"/> | Two |

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Question # 8 of 10 (Start time: 12:07:17 PM, 26 June 2022)

Total Marks: 1

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

Select the correct option

- arrays
- functions
- binary trees
- linked lists

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Question # 6 of 10 (Start time: 11:44:25 AM, 26 June 2022)

Total Marks: 1

In the case of _____, analysis does not depend upon on the distribution of input.

Select the correct option

| | |
|----------------------------------|----------------|
| <input type="radio"/> | Heap sort |
| <input checked="" type="radio"/> | Quick sort |
| <input type="radio"/> | Insertion sort |
| <input type="radio"/> | Merge sort |

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Question # 1 of 10 (Start time: 11:58:54 AM, 26 June 2022)

Total Marks: 1

Quicksort is a/an _____ and _____ sorting algorithm.

Select the correct option

Not in-place, stable one

In-place, not stable one

In-place, stable one

Not in-place, not stable one

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Question # 3 of 10 (Start time: 11:40:27 AM, 26 June 2022)

Total Marks:

Which one of the following sorting algorithms is the fastest?

Select the correct option

| | |
|----------------------------------|----------------|
| <input type="radio"/> | Merge sort |
| <input checked="" type="radio"/> | Quick sort |
| <input type="radio"/> | Heap sort |
| <input type="radio"/> | Insertion sort |

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Question # 2 of 10 (Start time: 11:39:37 AM, 26 June 2022)

Total Marks: 1

In Bucket sort, if there are duplicates then each bin can be replaced by a _____.

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|-------------|
| <input checked="" type="radio"/> | Linked list |
| <input type="radio"/> | Stack |
| <input type="radio"/> | Hash table |
| <input type="radio"/> | Heap |

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Question # 5 of 10 (Start time: 11:42:58 AM, 26 June 2022)

Total Marks: 1

We can improve the performance of quick sort if we could be able to _____.

Select the correct option

- | | |
|----------------------------------|-------------------------------|
| <input checked="" type="radio"/> | Skip any sub-array completely |
| <input type="radio"/> | Select two or more pivots |
| <input type="radio"/> | Eliminate recursive calls |
| <input type="radio"/> | Skip input elements somehow |

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Question # 9 of 10 (Start time: 11:47:45 AM, 26 June 2022)

Total Marks: 1

_____ is the process of avoiding unnecessary repetitions by writing down the results of recursive calls and looking them up again if we need them later.

Select the correct option

- | | |
|----------------------------------|-------------|
| <input checked="" type="radio"/> | Memoization |
| <input type="radio"/> | Recursion |
| <input type="radio"/> | Function |
| <input type="radio"/> | Loop |

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Question # 10 of 10 (Start time: 11:49:04 AM, 26 June 2022)

Total Marks: 10

The formula for calculating the Catalan number is _____.

Select the correct option

[Reload Math Equations](#)

$$C(n) = \frac{1}{n+1} \binom{2n}{n}$$



$$C(n) = \frac{1}{n-1} \binom{n}{2n}$$



$$C(n) = \frac{1}{n-1} \binom{2n}{n}$$



$$C(n) = \frac{1}{n+1} \binom{n}{2n}$$

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Question # 3 of 10 (Start time: 12:01:14 PM, 26 June 2022)

Total Marks: 1

Suppose we have 4 matrices A, B, C, D. What is correct expansion of $m[1,2]$ in chain matrix multiplication?

Select the correct option

Reload Math Equations



$$m[1, 2] = m[1, 2] + m[2, 2] + p_0 \cdot p_1 \cdot p_2$$



$$m[1, 2] = m[1, 1] + m[2, 2] + p_0 \cdot p_1 \cdot p_3$$



$$m[1, 2] = m[1, 1] + m[1, 2] + p_0 \cdot p_1 \cdot p_2$$



$$m[1, 2] = m[1, 1] + m[2, 2] + p_0 \cdot p_1 \cdot p_2$$

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Question # 10 of 10 (Start time: 12:08:46 PM, 26 June 2022)

Total Marks:

In average-case time analysis of quick sort algorithm, the most balanced case for partition is when we divide the list of elements into _____.

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | Single piece exactly |
| <input type="radio"/> | Two nearly equal pieces |
| <input type="radio"/> | Equal no. of pieces as of input elements |
| <input checked="" type="radio"/> | Three nearly equal pieces |

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Question # 4 of 10 (Start time: 11:41:59 AM, 26 June 2022)

Total Marks: 1

Dynamic programming formulation of the matrix chain multiplication problem will store the solutions of each sub problem in a(n):

Select the correct option

| | |
|----------------------------------|----------|
| <input type="radio"/> | class |
| <input checked="" type="radio"/> | Table |
| <input type="radio"/> | Variable |
| <input type="radio"/> | Array |

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Question # 8 of 10 (Start time: 11:46:55 AM, 26 June 2022)

Total Marks: 1

There are _____ entries in the Edit Distance Matrix.

Select the correct option

 $\theta (n + 100)$  $\theta (n+2)$  $\theta (n)$  $\theta (n^2)$ **MADE BY HADI**

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Question # 3 of 10 (Start time: 05:29:03 PM, 06 June 2022)

Total Marks: 1

In Ram, each instruction involves performing some basic operation on how many values in the machines memory?

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|-------|
| <input checked="" type="radio"/> | Two |
| <input type="radio"/> | One |
| <input type="radio"/> | Three |
| <input type="radio"/> | Four |

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Question # 1 of 10 (Start time: 08:38:26 PM, 08 June 2022)

Total Marks: 1

Al-Khwarizmi was a/an _____.

Select the correct option

- astronomer
- mathematician
- khalifah
- artist

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Question # 7 of 10 (Start time: 05:33:30 PM, 06 June 2022)

Total Marks: 1

The O-notation is used to state only the asymptotic _____ bounds.

Select the correct option

| | |
|----------------------------------|--------------------|
| <input type="radio"/> | Lower |
| <input type="radio"/> | Both lower & upper |
| <input checked="" type="radio"/> | Upper |
| <input type="radio"/> | Two |

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Question # 5 of 10 (Start time: 08:43:42 PM, 08 June 2022)

Total Marks: 1

For small values of n , _____ algorithm is fast enough.

Select the correct option

[Reload Math Equations](#)

heap sort

quick sort

Any

merge sort

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Question # 5 of 10 (Start time: 05:30:23 PM, 06 June 2022)

Total Marks: 1

For _____ values of n, any algorithm is fast enough.

Select the correct option

| | |
|----------------------------------|----------|
| <input type="radio"/> | Large |
| <input checked="" type="radio"/> | Small |
| <input type="radio"/> | Medium |
| <input type="radio"/> | Infinity |

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Question # 4 of 10 (Start time: 05:29:59 PM, 06 June 2022)

Total Marks: 1

Which type of operations does RAM perform?

Select the correct option

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- All of above
- Access element of array
- Comparison or Boolean
- Assign value to a variable

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Question # 10 of 10 (Start time: 05:36:34 PM, 06 June 2022)

Total Marks: 1

In order to say anything meaningful about our algorithms, it will be important for us to settle on a _____.

Select the correct option

Java Program

C++ Program

Mathematical model of computation

Pseudo program

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Question # 8 of 10 (Start time: 05:34:05 PM, 06 June 2022)

Total Marks: 1

In order to analyze algorithm, a Mathematical Model of computation is used known as

Select the correct option

[Reload Math Equations](#)

Random Machine

Random Access Machine

Read Only Machine

Read drive Machine

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- 4) GRAND QUIZZES

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