

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

We Deal All Kind of VU 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!



PAST PAPER

Question # 3 of 30 (Start time: 09:41:57 AM, 04 January 2021)

Total Marks: 1

An in-place sorting algorithm is one that _____ use(s) additional array for storage.

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Select the correct option

- | | | |
|----------------------------------|-------------|--|
| <input type="radio"/> | Always | |
| <input type="radio"/> | Permanently | |
| <input checked="" type="radio"/> | Does not | |
| <input type="radio"/> | Sometime | |

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Question # 24 of 30 (Start time: 10:01:23 AM, 04 January 2021)

Total Marks: 1

Radix sort is a _____ integer sorting algorithm.

Select the correct option

<input type="radio"/>	Comparative	//
<input checked="" type="radio"/>	Non-comparative	//
<input type="radio"/>	In-Place	//
<input type="radio"/>	Unstable	//

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Question # 14 of 30 (Start time: 09:51:55 AM, 04 January 2021)

Total Marks: 1

In max heap (for Heap Sort algorithm), when every time maximum element is removed from top we replace it with _____ leaf in the tree.

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Select the correct option

- | | | |
|----------------------------------|-------------|---|
| <input type="radio"/> | Second last | / |
| <input checked="" type="radio"/> | Last | / |
| <input type="radio"/> | First | / |
| <input type="radio"/> | Any | / |

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Question # 4 of 30 (Start time: 09:42:30 AM, 04 January 2021)

Total Marks: 1

_____ is not useful measure of central tendency of given input set especially when the distribution of values is highly skewed.

Select the correct option

<input type="radio"/>	Mean	//
<input type="radio"/>	Mode	//
<input type="radio"/>	Average	//
<input checked="" type="radio"/>	Median	//

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Question # 17 of 30 (Start time: 09:54:45 AM, 04 January 2021)

Total Marks: 1

For solving Selection problem, we introduced Sieve technique due to _____

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Select the correct option

- | | | |
|----------------------------------|-------------------------------------|---|
| <input type="radio"/> | Using Decrease and Conquer strategy | / |
| <input type="radio"/> | Avoiding to sort all input data | / |
| <input checked="" type="radio"/> | Eliminating Rank of an element | / |
| <input type="radio"/> | Using Brute-force approach | / |

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Question # 7 of 30 (Start time: 09:45:17 AM, 04 January 2021)

Total Marks: 1

Approach of solving geometric problems by sweeping a line across the plane is called _____sweep.

Select the correct option

<input type="radio"/>	Line	//
<input checked="" type="radio"/>	Plane	//
<input type="radio"/>	Cube	//
<input type="radio"/>	Box	//

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Question # 19 of 30 (Start time: 09:56:40 AM, 04 January 2021)

Total Marks: 1

Asymptotic notations are used to describe _____ of an algorithm.

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Select the correct option

<input type="radio"/>	length	//
<input checked="" type="radio"/>	running time	//
<input type="radio"/>	size	//
<input type="radio"/>	compile time	//

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Question # 22 of 30 (Start time: 10:00:18 AM, 04 January 2021)

Total Marks: 1

In 3-Dimensional space, a point P has _____ coordinate(s).

Select the correct option

- | | | |
|----------------------------------|-----------|----|
| <input type="radio"/> | (X, Y) | // |
| <input type="radio"/> | (X, 0) | // |
| <input type="radio"/> | (0, Y) | // |
| <input checked="" type="radio"/> | (X, Y, Z) | // |

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Question # 5 of 30 (Start time: 09:44:10 AM, 04 January 2021)

Total Marks: 1

$f(n)$ and $g(n)$ are asymptotically equivalent. This means that they have essentially the same _____ for large n .

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Select the correct option

<input type="radio"/>	Results	//
<input type="radio"/>	Variables	//
<input type="radio"/>	Size	//
<input checked="" type="radio"/>	Growth rates	//

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Question # 10 of 30 (Start time: 09:48:26 AM, 04 January 2021)

Total Marks: 1

_____ time is the maximum running time over all legal inputs.

Select the correct option

<input checked="" type="radio"/>	Worst-case	//
<input type="radio"/>	Average-case	//
<input type="radio"/>	Best-case	
<input type="radio"/>	Good-case	

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Question # 8 of 30 (Start time: 09:45:56 AM, 04 January 2021)

Total Marks: 1

When a recursive algorithm revisits the same problem over and over again, we say that the optimization problem has _____ sub-problems.

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Select the correct option

- | | | |
|----------------------------------|--------------|----|
| <input checked="" type="radio"/> | Overlapping | // |
| <input type="radio"/> | Over costing | // |
| <input type="radio"/> | Optimized | // |
| <input type="radio"/> | Three | // |

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Question # 6 of 30 (Start time: 09:44:54 AM, 04 January 2021)

Total Marks: 1

Quick sort algorithm was developed by _____.

Select the correct option

- | | | |
|----------------------------------|------------------------|----|
| <input type="radio"/> | Alfred Aho | // |
| <input type="radio"/> | Sedgewick | // |
| <input type="radio"/> | John Vincent Atanasoff | |
| <input checked="" type="radio"/> | Tony Hoare | |

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Question # 23 of 30 (Start time: 10:00:48 AM, 04 January 2021)

Total Marks: 1

Memoization is a part of _____ programming strategy.

Select the correct option

- slow
- fast
- dynamic
- memory

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Question # 11 of 30 (Start time: 09:48:56 AM, 04 January 2021)

Total Marks: 1

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

Select the correct option

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

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Question # 15 of 30 (Start time: 09:52:48 AM, 04 January 2021)

Total Marks: 1

Developing a dynamic programming algorithm generally involves _____ separate steps.

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Select the correct option

- One
- Two
- Three
- Four

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Question # 28 of 30 (Start time: 10:05:36 AM, 04 January 2021)

Total Marks: 1

An algorithm is said to be correct if for every _____ instance, it halts with the correct _____.

Select the correct option

- | | | |
|----------------------------------|-------------------|----|
| <input checked="" type="radio"/> | Input , Output | // |
| <input type="radio"/> | Design , Analysis | // |
| <input type="radio"/> | Design , Analysis | // |
| <input type="radio"/> | Key , Analysis | // |

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Question # 12 of 30 (Start time: 09:49:29 AM, 04 January 2021)

Total Marks: 1

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

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Select the correct option

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

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Question # 29 of 30 (Start time: 10:06:09 AM, 04 January 2021)

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

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Question # 21 of 30 (Start time: 09:59:08 AM, 04 January 2021)

Total Marks: 1

In 2-d maxima problem a point p is said to be dominated by point q if _____.

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Select the correct option

- | | | |
|----------------------------------|-----------------------------------|---|
| <input type="radio"/> | $p.x \leq q.x$ | / |
| <input checked="" type="radio"/> | $p.x \leq q.x$ and $p.y \leq q.y$ | / |
| <input type="radio"/> | $p.y \leq q.y$ | / |
| <input type="radio"/> | $p.x \geq q.x$ and $p.y \geq q.y$ | / |

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Question # 26 of 30 (Start time: 10:03:11 AM, 04 January 2021)

Total Marks: 1

How many steps are involved to design the dynamic programming strategy?

Select the correct option

- 2
- 3
- 1
- 4

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Question # 30 of 30 (Start time: 10:06:44 AM, 04 January 2021)

Total Marks: 1

The brute-force algorithm for 2D-Maxima runs in order $O(___)$ time.

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Select the correct option

- | | | |
|----------------------------------|-------------|---|
| <input type="radio"/> | n | / |
| <input type="radio"/> | $n(\log n)$ | / |
| <input type="radio"/> | n^n | / |
| <input checked="" type="radio"/> | n^3 | / |

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