

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

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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 # 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.

Select the correct option

☐	Always	
☐	Permanently	
☒	Does not	
☐	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

☐	Comparative	
☒	Non-comparative	
☐	In-Place	
☐	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

☐	Second last	
☒	Last	
☐	First	
☐	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

☐	Mean	
☐	Mode	
☐	Average	
☒	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

- | | | |
|----------------------------------|-------------------------------------|--|
| ☐ | Using Decrease and Conquer strategy | |
| ☐ | Avoiding to sort all input data | |
| ☒ | Eliminating Rank of an element | |
| ☐ | 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

☐	Line	⌵
☒	Plane	⌵
☐	Cube	⌵
☐	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

☐	length	
☒	running time	
☐	size	
☐	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

- | | | |
|----------------------------------|-----------|--|
| ☐ | (X, Y) | |
| ☐ | (X, 0) | |
| ☐ | (0, Y) | |
| ☒ | (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

☐	Results
☐	Variables
☐	Size
☒	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

☒	Worst-case
☐	Average-case
☐	Best-case
☐	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.

Select the correct option

☒	Overlapping
☐	Over costing
☐	Optimized
☐	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

☐	Alfred Aho	
☐	Sedgewick	
☐	John Vincent Atanasoff	
☒	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.

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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

☐	arrays
☐	linked lists
☒	binary trees
☐	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 , Output	
☐	Design , Analysis	
☐	Design , Analysis	
☐	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

☐	Stack	
☒	Linked list	
☐	Hash table	
☐	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

☐	Array	
☒	Table	
☐	Variable	
☐	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

- | | | |
|----------------------------------|-----------------------------------|-----|
| ☐ | $p.x \leq q.x$ | 1/1 |
| ☒ | $p.x \leq q.x$ and $p.y \leq q.y$ | 1/1 |
| ☐ | $p.y \leq q.y$ | 1/1 |
| ☐ | $p.x \geq q.x$ and $p.y \geq q.y$ | 1/1 |

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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

☐	n	
☐	$n(\log n)$	
☐	n^*n	
☒	n^3	

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