

# VIRTUAL UNIVERSITY OF PAKISTAN

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**TEAM HADI(VU LAHORE)**

## MID 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.



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Best of luck!



Question # 13 of 30 ( Start time: 12:14:51 PM, 04 January 2021 )

Total Marks: 1

Counting sort is suitable for sorting the elements within range 1 to P, where \_\_\_\_\_

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Select the correct option

- |                                  |                   |
|----------------------------------|-------------------|
| <input type="radio"/>            | P is large        |
| <input checked="" type="radio"/> | P is small        |
| <input type="radio"/>            | P is very large   |
| <input type="radio"/>            | P is undetermined |

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Question # 16 of 30 ( Start time: 12:45:06 PM, 04 January 2021 )

Total Marks: 1

Algorithm is a sequence of computational steps that \_\_\_\_\_ the input into output.

Select the correct option

- merge
- assign
- transform
- integrate

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## Question # 9 of 30 ( Start time: 12:11:50 PM, 04 January 2021 )

Total Marks: 1

Fibonacci Sequence was named on \_\_\_\_\_, a famous mathematician in 12th Century.

Select the correct option

- |                                  |                 |  |
|----------------------------------|-----------------|--|
| <input type="radio"/>            | Fred Brooks     |  |
| <input type="radio"/>            | Grady Booch     |  |
| <input checked="" type="radio"/> | Leonardo Pisano |  |
| <input type="radio"/>            | Edgar F. Codd   |  |

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Question # 2 of 30 ( Start time: 12:06:48 PM, 04 January 2021 )

Total Marks: 1

In plane sweep approach, a vertical line is swept across the 2d-plane and \_\_\_\_\_ structure is used for holding the maximal points lying to the left of the sweep line.

Select the correct option

<input type="radio"/>	Array	//
<input type="radio"/>	Queue	//
<input checked="" type="radio"/>	Stack	//
<input type="radio"/>	Tree	//

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## Question # 8 of 30 ( Start time: 12:10:49 PM, 04 January 2021 )

Total Marks: 1

If matrix A of dimension  $p \times q$  is multiplied with matrix B of dimension  $q \times r$ , then each entry in resultant matrix takes \_\_\_\_\_ time.

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Select the correct option

<input checked="" type="radio"/>	$O(q)$	//
<input type="radio"/>	$O(1)$	//
<input type="radio"/>	$O(p \times q)$	//
<input type="radio"/>	$O(q \times r)$	//

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Question # 20 of 30 ( Start time: 12:19:57 PM, 04 January 2021 )

Total Marks: 1

In plane sweep approach of solving geometric problems, a \_\_\_\_\_ is swept across the plane.

Select the correct option

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

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Question # 5 of 30 ( Start time: 12:08:29 PM, 04 January 2021 )

Total Marks: 1

The number of nodes in a complete binary tree of height h is:

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Select the correct option

- |                                  |                   |
|----------------------------------|-------------------|
| <input type="radio"/>            | $2 * (h+1) - 1$   |
| <input checked="" type="radio"/> | $2^{(h+1)} - 1$   |
| <input type="radio"/>            | $2 * (h+1)$       |
| <input type="radio"/>            | $((h+1) ^ 2) - 1$ |

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Question # 6 of 30 ( Start time: 12:37:35 PM, 04 January 2021 )

Total Marks: 1

If there are  $\Theta(n^2)$  entries in edit distance matrix then each entry  $E(i, j)$  takes \_\_\_\_\_ time to compute.

Select the correct option

- |                                  |                    |    |
|----------------------------------|--------------------|----|
| <input type="radio"/>            | $\Theta(n)$        | // |
| <input checked="" type="radio"/> | $\Theta(n^2)$      | // |
| <input type="radio"/>            | $\Theta(1)$        | // |
| <input type="radio"/>            | $\Theta(n \log n)$ | // |

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Question # 21 of 30 ( Start time: 12:21:31 PM, 04 January 2021 )

Total Marks: 1

If there are  $\Theta(n^2)$  entries in edit distance matrix then the total running time is:

Select the correct option

- |                                  |                    |  |
|----------------------------------|--------------------|--|
| <input type="radio"/>            | $\Theta(n)$        |  |
| <input type="radio"/>            | $\Theta(1)$        |  |
| <input checked="" type="radio"/> | $\Theta(n^2)$      |  |
| <input type="radio"/>            | $\Theta(n \log n)$ |  |

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Question # 10 of 30 ( Start time: 12:12:31 PM, 04 January 2021 )

Total Marks: 1

Boolean operation is a \_\_\_\_\_ operation on an idealized RAM model of computation.

Select the correct option

- |                                  |          |    |
|----------------------------------|----------|----|
| <input type="radio"/>            | Starting | // |
| <input checked="" type="radio"/> | Basic    | // |
| <input type="radio"/>            | Advance  | // |
| <input type="radio"/>            | Normal   | // |

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Question # 19 of 30 ( Start time: 12:19:24 PM, 04 January 2021 )

Total Marks: 1

Which of the following is calculated with Big O notation?

Select the correct option

- |                                  |                             |    |
|----------------------------------|-----------------------------|----|
| <input type="radio"/>            | Medium bounds               | // |
| <input checked="" type="radio"/> | Upper bounds                | // |
| <input type="radio"/>            | Lower bounds                |    |
| <input type="radio"/>            | Both upper and lower bounds |    |

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Question # 15 of 30 ( Start time: 12:44:42 PM, 04 January 2021 )

Total Marks: 1

A sorting algorithm is called as \_\_\_\_\_ if duplicate elements remain in the same relative position after sorting.

Select the correct option

<input type="radio"/>	Parallel	//
<input type="radio"/>	$O(n)$ algorithm	//
<input checked="" type="radio"/>	Stable	//
<input type="radio"/>	Complex	//

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Question # 12 of 30 ( Start time: 12:14:28 PM, 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 # 12 of 30 ( Start time: 12:42:15 PM, 04 January 2021 )

Total Marks: 1

In Heap Sort algorithm, if heap property is violated:

Select the correct option

- |                                  |                                     |    |
|----------------------------------|-------------------------------------|----|
| <input type="radio"/>            | We call Build heap procedure        | // |
| <input checked="" type="radio"/> | We call Heapify procedure           | // |
| <input type="radio"/>            | We ignore                           | // |
| <input type="radio"/>            | Heap property can never be violated | // |

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Question # 17 of 30 ( Start time: 12:45:35 PM, 04 January 2021 )

Total Marks: 1

In Heap Sort algorithm, the first step is to \_\_\_\_\_.

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Select the correct option

- |                                  |                                    |    |
|----------------------------------|------------------------------------|----|
| <input type="radio"/>            | Call Build-Heap procedure          | // |
| <input checked="" type="radio"/> | Sort the array in descending order | // |
| <input type="radio"/>            | Call Heapify procedure             | // |
| <input type="radio"/>            | Find the number of input elements  | // |

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Question # 8 of 30 ( Start time: 12:38:53 PM, 04 January 2021 )

Total Marks: 1

\_\_\_\_\_ programming is essentially recursion without repetition.

Select the correct option

- |                                  |         |    |
|----------------------------------|---------|----|
| <input type="radio"/>            | Fast    | // |
| <input checked="" type="radio"/> | Dynamic | // |
| <input type="radio"/>            | Array   | // |
| <input type="radio"/>            | N log n | // |

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Question # 25 of 30 ( Start time: 12:25:28 PM, 04 January 2021 )

Total Marks: 1

The only way to convert a string of  $i$  characters into the empty string is with  $i$  deletions, represented as \_\_\_\_\_.

Select the correct option

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

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Question # 6 of 30 ( Start time: 12:09:19 PM, 04 January 2021 )

Total Marks: 1

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

Select the correct option

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

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Question # 26 of 30 ( Start time: 12:51:59 PM, 04 January 2021 )

Total Marks: 1

The sieve technique works where we have to find \_\_\_\_\_ item(s) from a large input.

Select the correct option

- |                                  |         |  |
|----------------------------------|---------|--|
| <input checked="" type="radio"/> | Single  |  |
| <input type="radio"/>            | Two     |  |
| <input type="radio"/>            | Three   |  |
| <input type="radio"/>            | Similar |  |

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Question # 14 of 30 ( Start time: 12:15:34 PM, 04 January 2021 )

Total Marks: 1

In merge sort algorithm, we split the array \_\_\_\_\_ to find index q.

Select the correct option

- |                                  |                        |    |
|----------------------------------|------------------------|----|
| <input type="radio"/>            | from start             | // |
| <input checked="" type="radio"/> | midway                 | // |
| <input type="radio"/>            | from end               | // |
| <input type="radio"/>            | both from start or end | // |

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Question # 11 of 30 ( Start time: 12:12:58 PM, 04 January 2021 )

Total Marks: 1

\_\_\_\_\_ is a linear time sorting algorithm.

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Select the correct option

- Merge sort
- Radix sort
- Quick sort
- Bubble sort

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## Question # 23 of 30 ( Start time: 12:23:49 PM, 04 January 2021 )

Total Marks: 1

The time assumed for each basic operation to execute on RAM model of computation is \_\_\_\_\_.

## Select the correct option

<input type="radio"/>	Infinite
<input type="radio"/>	Continuous
<input checked="" type="radio"/>	Constant
<input type="radio"/>	Variable

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Question # 7 of 30 ( Start time: 12:38:02 PM, 04 January 2021 )

Total Marks: 1

In Dynamic Programming based solution of knapsack problem, to compute entries of 'V', we will imply a(n) \_\_\_\_\_ approach.

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Select the correct option

- |                                  |             |    |
|----------------------------------|-------------|----|
| <input type="radio"/>            | Subjective  | // |
| <input checked="" type="radio"/> | Inductive   | // |
| <input type="radio"/>            | Brute Force | // |
| <input type="radio"/>            | Combination | // |

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Question # 17 of 30 ( Start time: 12:17:39 PM, 04 January 2021 )

Total Marks: 1

Developing a dynamic programming algorithm generally involves \_\_\_\_\_ separate steps.

Select the correct option

- One
- Two
- Three
- Four

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Question # 19 of 30 ( Start time: 12:46:57 PM, 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 # 15 of 30 ( Start time: 12:16:29 PM, 04 January 2021 )

Total Marks: 1

Radix sort performs sorting the numbers \_\_\_\_\_ digit(s) at a time.

Select the correct option

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

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Question # 9 of 30 ( Start time: 12:39:38 PM, 04 January 2021 )

Total Marks: 1

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

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

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Question # 14 of 30 ( Start time: 12:43:37 PM, 04 January 2021 )

Total Marks: 1

Which one is not passed as parameter in Quick sort algorithm?

Select the correct option

- |                                  |                                   |    |
|----------------------------------|-----------------------------------|----|
| <input type="radio"/>            | End of the array                  | // |
| <input type="radio"/>            | Middle of the array               | // |
| <input checked="" type="radio"/> | Array (containing input elements) |    |
| <input type="radio"/>            | Start of the array                |    |

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Question # 18 of 30 ( Start time: 12:18:20 PM, 04 January 2021 )

Total Marks: 1

If  $p_j$  dominates  $p_i$  and  $p_i$  dominates  $p_h$  then  $p_j$  also dominates  $p_h$ . It means dominance relation is \_\_\_\_\_.

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Select the correct option

<input checked="" type="radio"/>	Transitive	//
<input type="radio"/>	Non Transitive	//
<input type="radio"/>	Equation	//
<input type="radio"/>	Symbolic	//

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Question # 27 of 30 ( Start time: 12:52:28 PM, 04 January 2021 )

Total Marks: 1

If the time complexity of an algorithm is given by  $O(1)$ , then its time complexity would be:

Select the correct option

- |                                  |             |    |
|----------------------------------|-------------|----|
| <input type="radio"/>            | Polynomial  | // |
| <input type="radio"/>            | Exponential | // |
| <input checked="" type="radio"/> | Constant    |    |
| <input type="radio"/>            | Average     |    |

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Question # 16 of 30 ( Start time: 12:17:12 PM, 04 January 2021 )

Total Marks: 1

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

Select the correct option

- Stack
- Linked list
- Hash table
- Heap

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Question # 24 of 30 ( Start time: 12:50:29 PM, 04 January 2021 )

Total Marks: 1

Brute-force algorithm for 2D-Maxima is operated by comparing \_\_\_\_\_ pairs of points.

Select the correct option

- Two
- Some
- Most
- All

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Question # 10 of 30 ( Start time: 12:41:05 PM, 04 January 2021 )

Total Marks: 1

The definition of theta-notation relies on proving \_\_\_\_\_ asymptotic bound.

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Select the correct option

<input type="radio"/>	one	//
<input type="radio"/>	lower	//
<input type="radio"/>	upper	//
<input checked="" type="radio"/>	both lower and upper	//

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Question # 4 of 30 ( Start time: 12:07:55 PM, 04 January 2021 )

Total Marks: 1

In the analysis of Selection algorithm, we get the convergent \_\_\_\_\_ series.

Select the correct option

<input type="radio"/>	Harmonic	//
<input type="radio"/>	Linear	//
<input type="radio"/>	Arithmetic	//
<input checked="" type="radio"/>	Geometric	//

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Question # 3 of 30 ( Start time: 12:07:17 PM, 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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# HADI VU PAST PAPER

---

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

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