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Question No : 1 of 26 Marks: 1 (Budgeted Time 1 Min)

The word *Algorithm* comes from the name of the Muslim author _____

Answer (Please select your correct option)

☐ Abu Ja'far Mohammad ibn Musa al-Khwarizmi or Al-Khwarizmi

☐ Khwarizm

☐ Kheva

☐ Uzbekistan

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Question No : 2 of 26 Marks: 1 (Budgeted Time 1 Min)

Al-Khwarizmi's work was written in a book titled _____

Answer (Please select your correct option)

☐ al Kitab al-mukhatasar fi hisab al-jabrwa'l-muqabalah

☐ Calculation by Completion

☐ al Kitab

☐ al-jabrwa'l-muqabalah

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Question No : 3 of 26 Marks: 1 (Budgeted Time 1 Min)

_____ is a graphical representation of an algorithm

Answer (Please select your correct option)

☐ Σ notation

☐ Θ notation

☒ Flowchart

☐ Asymptotic notation

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Question No : 4 of 26 Marks: 1 (Budgeted Time 1 Min)

What is the asymptotic growth of $n^2 + \frac{4n + 15n + 11n}{16}$?

Answer (Please select your correct option)

- ☐ $\Theta\left(\frac{4n + 15n + 11n}{16}\right)$
- ☐ $\Theta\left(n^2 + n + \frac{1}{16}\right)$
- ☐ $\Theta(n^2)$
- ☐ $\Theta(n)$

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Question No : 5 of 26 Marks: 1 (Budgeted Time 1 Min)

Recurrences are useful for analyzing

Answer (Please select your correct option)

☐ Recursive Algorithms

☐ Simple Algorithms

☐ Parallel Algorithms

☐ Parallel Algorithms & Recursive Algorithms

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

The sieve technique is a special case, where the number of sub problems is just

Answer (Please select your correct option)

☐ 5

☐ many

☒ 1

☐ few

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Question No : 7 of 26 Marks: 1 (Budgeted Time 1 Min)

What is the total time to heapify?

Answer (Please select your correct option)

☐ $O(\log n)$

☐ $O(n \log n)$

☐ $O(n^2 \log n)$

☐ $O(\log^2 n)$

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Comparison based sorting algorithms can not run faster than

Answer (Please select your correct option)

☒ $\Omega (n \log n)$

☐ $O (n \log n)$

☐ $\Omega (n^2)$

☐ $O (n^2)$

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

After partitioning array in Quick sort, pivot is placed in a position such that

Answer (Please select your correct option)

☐ Values smaller than pivot are on left and larger than pivot are on right

☐ Values larger than pivot are on left and smaller than pivot are on right

☐ Pivot is the first element of array

☐ Pivot is the last element of array

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Question No : 10 of 26 Marks: 1 (Budgeted Time 1 Min)

The running time of quick sort depends heavily on the selection of

Answer (Please select your correct option)

☐ Required Output

☐ Input and output

☐ Pivot

☐ Input data only

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Question No : 11 of 26 Marks: 1 (Budgeted Time 1 Min)

Memoization is a process

Answer (Please select your correct option)

☐ To avoid unnecessary repetitions by writing down the results of recursive calls and looking them again if needed later

☐ To avoid repeated data by writing down the results of input array and looking them again if needed later.

☐ None of these

☐ All options are correct

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Question No : 12 of 26 Marks: 1 (Budgeted Time 1 Min)

A problem exhibits _____ if an optimal solution to the problem contains within it optimal solution to sub-problems.

Answer (Please select your correct option)

☐ Optimal structure

☐ Efficient structure

☐ Inefficient structure

☐ Unknown behavior

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Question No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)

A $p \times q$ matrix A can be multiplied with a $q \times r$ matrix B. The result will be a $p \times r$ matrix C. There are $(p \cdot r)$ total entries in C and each takes _____ to compute.

Answer (Please select your correct option)

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☐ (1)

☐ (n^2)

☐ (n^3)

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Question No : 14 of 26 Marks: 1 (Budgeted Time 1 Min)

Catalan number is given by the formula:

Answer (Please select your correct option)

☐ $C(n) = \frac{1}{n+1} \binom{2n}{n}$ correct answer solve by hadi

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

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

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

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Question No : 15 of 26 Marks: 1 (Budgeted Time 1 Min)

For Chain Matrix Multiplication we can not use divide and conquer approach because,

Answer (Please select your correct option)

☐ We do not know the optimum k

☐ We use divide and conquer for sorting only

☐ We can easily perform it in linear time

☐ Size of data is not given

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Question No : 16 of 26 Marks: 1 (Budgeted Time 1 Min)

Time complexity of chain matrix multiplication is $\Theta(n^3)$ and space complexity is

Answer (Please select your correct option)

☒ $\Theta(n^2)$ correct answer solve by hadi

☐ $\Theta(n^3)$

☐ $\Theta(n \log n)$

☐ $\Theta(\log n)$

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Question No : 17 of 26 Marks: 1 (Budgeted Time 1 Min)

Computational model of sequential RAM is:

Answer (Please select your correct option)

- ☐ Parallel machines may be expensive to model and have more computational power than sequential RAM.
- ☐ Computational power of sequential RAM is same as that of parallel machines only time efficiency is achieved with parallel machines
- ☐ Both first and second options are true for the statement
- ☐ Less powerful computational wise than parallel machines

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Question No : 18 of 26 Marks: 1 (Budgeted Time 1 Min)

What is the correct order of operations in merge sort?

Answer (Please select your correct option)

☐ Conquer → Divide → Combine

☐ Divide → Conquer → Combine

☐ Conquer → Divide → Split

☐ Split → Conquer → Destroy

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Question No : 19 of 26 Marks: 1 (Budgeted Time 1 Min)

What is the average-case time for merge sort to sort an array of n elements?

Answer (Please select your correct option)

- ☐ $O(\log n)$
- ☐ $O(n)$
- ☒ $O(n \log n)$
- ☐ $O(n^2)$

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Question No : 20 of 26 Marks: 1 (Budgeted Time 1 Min)

What is the solution to the recurrence $T(n) = T(n/2) + n$, $T(1) = 1$?

Answer (Please select your correct option)

- ☐ $O(\log n)$
- ☐ $O(n)$
- ☐ $O(n \log n)$
- ☐ $O(n^2)$

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Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

What is the idea behind in counting sort algorithm, to sort the elements without comparisons in linear time?

Answer (Please click here to Add Answer)

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Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

Which one is the better approach to cop with chain matrix multiplication?

Answer (Please [click here](#) to Add Answer)

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Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

Consider sorting three numbers a1, a2 and a3 with comparison-based sorting algorithms then write the possible combinations?

Answer (Please click here to Add Answer)

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Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

What are Catalan numbers? Give the formula to find Catalan numbers.

Answer (Please [click here](#) to Add Answer)

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Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

The following summation form represents quick sort, so what will be the outcome after solving this recurrence in terms of asymptotic notation?

$$\sum_{i=1}^{n+1} i = \frac{(n+1)(n+2)}{2}$$

Answer (Please click here to Add Answer)

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Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

What is the time complexity of the following algorithm?

```
KNAPSACK(n, W)
1 for w = 0, W
2 do V[0, w] ← 0
3 for i = 0, n
4 do V[i, 0] ← 0
5   for w = 0, W
```

Answer (Please click here to Add Answer)

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Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

```
1   $u, v, w \leftarrow v$ 
2  for  $i = 0, n$ 
3  do  $V[i, 0] \leftarrow 0$ 
4  for  $w = 0, W$ 
5  do if  $(w_i \leq w \ \& \ v_i + V[i-1, w-w_i] > V[i-1, w])$ 
6  then  $V[i, w] \leftarrow v_i + V[i-1, w-w_i]$ 
7  else  $V[i, w] \leftarrow V[i-1, w]$ 
```

Answer (Please [click here](#) to Add Answer)

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Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

```
4 40  $V[i, 0] \leftarrow 0$ 
5 for  $w = 0, W$ 
6 do if  $w_i \leq w \ \& \ v_i + V[i-1, w-w_i] > V[i-1, w]$ 
7 then  $V[i, w] \leftarrow v_i + V[i-1, w-w_i]$ 
8 else  $V[i, w] \leftarrow V[i-1, w]$ 
```

Answer (Please [click here](#) to Add Answer)

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