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A Good Education is a Foundation For a Better Future

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(Final Term Past Paper)

MADE AND SOLVED BY TEAM 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!



PAST PAPER

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

The Huffman algorithm finds a (n) _____ solution.

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Answer (Please select your correct option)

- Optimal
- Non-optimal
- Exponential
- Polynomial



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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Using ASCII standard the string "abacdaacac" will be encoded with _____ bits.

Answer (Please select your correct option)

80



correct answer
solved by hadi

160

320

100

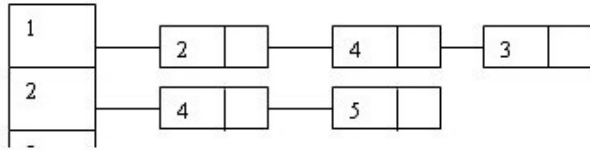
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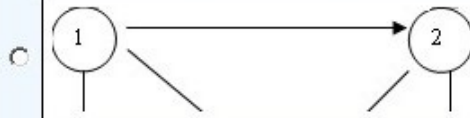
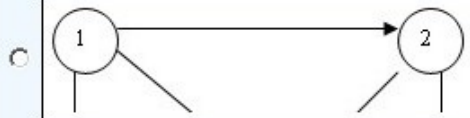
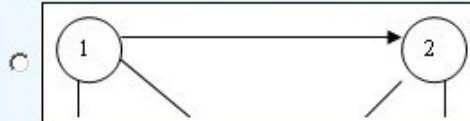
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Marks: 1 (Budgeted Time 1 Min)

Consider the following adjacency list:



Answer (Please select your correct option)



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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the string "abacdaacac" if the string is coded with ASCII codes using Huffman encoding scheme, the message length would be

Answer (Please select your correct option)

8 bits

80 bits

Less than 50 bits

More than 50 bits



correct answer
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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

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

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Answer (Please select your correct option)

al Kitab al-mukhtasar fi hisab al-jabrwa'l-muqabalah



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Calculation by Completion

al Kitab

al-jabrwa'l-muqabalah

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

A *heap* is a left-complete binary tree that conforms to the _____

Answer (Please select your correct option)

(log n) order

increasing order only

decreasing order only

heap order



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Question No : 7 of 52

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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 : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

If a sorting algorithm solely based on comparisons of keys in the array then it is impossible to sort more efficiently than

Answer (Please select your correct option)

$\Omega(n \lg n)$



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$\Theta(n \lg n)$

$O(n \lg n)$

None of these

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Fibonacci sequence was posed by

Answer (Please select your correct option)

Leonardo Pisano



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Leonardo Picasso

Leonardo Lewinski

Karl Marx

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The original recursive algorithm takes $\Theta(\Phi^n)$ time, where

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Answer (Please select your correct option)

$\Phi = 1.618$



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$\Phi = 3.142$

$\Phi = 1.816$

$\Phi = 1.168$

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

For a given chain of matrices A_1, A_2, A_3, A_4 , the product $A_1 A_2 A_3 A_4$ can be fully parenthesized in _____ distinct way(s).

Answer (Please select your correct option)

Five

Four

Three

Two

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Maximum number of edges in a Directed Graph may be

Answer (Please select your correct option)

V



2V



Approximately V^2



$V/2$



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The worst case running time of the algorithm given below is,

```
MAXIMA(int n, Point P[1...n])
```

```
1  for i ← 1 to n n times
```

```
2  do maximal ← true
```

Answer (Please select your correct option)

$\Theta(n^6)$

$\Theta\left(n^{\frac{2n}{6}}\right)$

$\Theta(n^2)$

$\Theta(2n \lg 6)$

correct answer

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

The Huffman algorithm finds

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Answer (Please select your correct option)

sometime optimal some time non optimal solution

space wise optimal and time wise non optimal solution

a non-optimal solution

an optimal solution



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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

The Huffman algorithm time complexity

Answer (Please select your correct option)

Can be improved up to $O(n \log n)$

Can be improved up to $O(\sqrt{n} \log n)$

Is always $O(n^3)$

Is always $O(n^2)$

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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Using ASCII standard the string "abacdaaca" will be encoded with

Answer (Please select your correct option)

216 bits

72 bits

144 bits

36 bits



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Using ASCII standard the string "abacdaac"

Answer (Please select your correct option)

If we use variable code for ASCII it will be 32 bits

If we use fixed code for ASCII it will be 256 bits

If we use variable code for ASCII it will be will 64 bits

If we use fixed code for ASCII it will be 64 bits



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Using Huffman encoding technique the string "a@\$a" will be encoded with _____ bits

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Answer (Please select your correct option)

5

6

8

Huffman encoding fail at this string



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The codeword assigned to characters by the Huffman algorithm have the property

Answer (Please select your correct option)

that no codeword is the prefix of any other



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that no codeword is the postfix of any other

that no codeword is the infix of any other

that no codeword is neither prefix nor postfix of any other

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

In generic graph traversal algorithm we

Answer (Please select your correct option)

put vertices in the bag data structure

put edges in the bag data structure

put edges in stack data structure

put vertices in the stack data structure



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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

In undirected graphs there

Answer (Please select your correct option)

are no Cross edges but have forward and back edges

are only forward edges

is convention of only back edges

is convention of forward edges



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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Precedence constraint graph is

Answer (Please select your correct option)

non acyclic directed graph

acyclic undirected graph

non acyclic undirected graph

acyclic directed graph



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when the graph has relatively few edges

Answer (Please select your correct option)

Kruskal's algorithm is better than Prim's



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No one has priority over each other

the assumption few edges is not valid

Prim's algorithm is better than Kruskal's

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

A free tree with "n" vertices has

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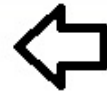
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Answer (Please select your correct option)

exactly $n+1$ edges

exactly $n-1$ edges



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exactly $2n+1$ edges

exactly $2n-1$ edges

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

G^T for the digraph can be computed in

Answer (Please select your correct option)

$\emptyset (VE)$

$\emptyset (V \log E)$

$\emptyset (E \log V)$

$\emptyset (V+E)$



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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not true about Dijkstra's algorithm?

Answer (Please select your correct option)

The length of the shortest path to the start vertex is always zero

It can find the shortest paths to all other vertices in the same worst case time that it needs to find the shortest path to a single vertex

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It will work on any weighted graph with positive weights

The running time of Bellman - Ford Algorithm is greater than Dijkstra's algorithm

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The running time of the Dijkstra's algorithm is _____

Answer (Please select your correct option)

$\Theta(E \log V)$



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$\Theta(E)$

$\Theta(\log V)$

$\Theta(EV^2)$

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

All algorithms having the time complexity $O(n^{10})$ and $O(n^{100})$ fall

Answer (Please select your correct option)

Non-Deterministic Polynomial class

Deterministic Polynomial class

$O(n^{10})$ in P class and $O(n^{100})$ in NP class



$O(n^{10})$ in NP class and $O(n^{100})$ in P class

correct answer

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Floyd-Warshall algorithm dates back to the early _____.

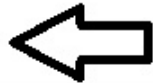
Answer (Please select your correct option)

70's

90's

60's

50's



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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Running time of Floyd-Warshall algorithm is

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Answer (Please select your correct option)

$\Theta(n^2)$

$\Theta(n^4)$

$\Theta(n^3)$

$\Theta(3^n)$



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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

The function having complexity $O(n^2)$ belongs to

Answer (Please select your correct option)

- NP-Class
- Co-Prime Class
- P-Class
- Both P and NP Classes



correct answer
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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

The function having complexity $O(n^k)$ belongs to

Answer (Please select your correct option)

Co-NP Class

NP-prime class

P-Class

NP -Class



correct answer
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Generalize Coloring problem arises in various partitioning problems where there is a constraint

Answer (Please select your correct option)

that two objects can not be assigned to the same set of partitions and is belong to NP class

that two objects can not be assigned to the same set of partitions and is belong to P class

of that we can organize the different partitions in P time and NP space

of colors does not effect the classifications

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

If a problem "S" is NP- complete it must be

Answer (Please select your correct option)

NP and NP-hard



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NP not necessarily NP-Hard

NP-hard means it is NP complete as well

in P and NP

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Clique cover problem arises in applications of _____.

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Answer (Please select your correct option)

Map drawing

Clustering

Architectural design

Clique



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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Sieve Technique can be applied to solve _____

Answer (Please select your correct option)

Selection problems



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Arguement problems

Dynamic problems

Greedy problems

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Which type of instructions Random Access Machine (RAM) can execute? Choose best answer

Answer (Please select your correct option)

Algebraic and logic

Geometric and arithmetic

Arithmetic and logic

Parallel and recursive



correct answer

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

The Huffman encoding algorithm is a _____

Answer (Please select your correct option)

Dynamic and greedy algorithm

Divide and conquer and greedy algorithm

Geedy algorithm.

Dynamic programming algorithm

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Usually which type of algorithm is harder to prove the correctness?

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Answer (Please select your correct option)

Dynamic programming

Brute Force

Greedy

Divide and conquer

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Which traversal technique is look like propagating wave-front outward

Answer (Please select your correct option)

Generic Traversal

Breadth First Traversal

Depth First Traversal

Time Stamp Traversal

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Right

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Answer yes or no and give a brief explanation for your choice.
Every problem in NP is NP-complete

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



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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Consider the case of 3 matrices: A_1 is 5×4 , A_2 is 4×6 and A_3 is 6×2 . If the multiplication can be carried out this way $((A_1A_2) A_3)$ then find out the cost.

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



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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

If we implement the bag data structure by using a stack, then which type of traversal it will be?

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

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

What is the greedy thing to do in Dijkstra's algorithm?

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



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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

How the Kruskal's algorithm works?

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

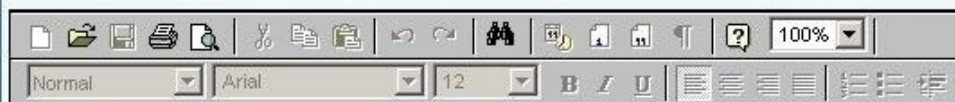


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Suppose you are given an integer array and asked to find the median in that array, suggest two techniques, one having the complexity $O(n \log n)$ and the other having linear time i.e. $O(n)$.

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



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Let A is the adjacency matrix of an undirected graph given below.
Does this matrix represent a complete graph?
What general property of the matrix indicates that the graph is complete?

	a	b	c	d	e	f
a	1	1	1	0	1	0
b	1	0	0	1	0	0

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



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What do you mean by polynomial time algorithm? Explain what kind of problem can be solved by using polynomial time algorithm?

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



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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Suppose you could reduce an NP-complete problem to a polynomial time problem in polynomial time. What would be the consequence?

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



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Develop the time analysis series of the following pseudo code and then give the asymptotic notation of your developed time sequence .

```
for (i=1; i<=n; i=i*7)
{
  for (j=1; j<=7n; ++j)
  {
    for(k=n; k>1; k=k-5)
    {
```

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



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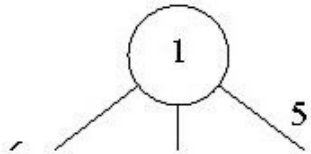
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Apply Prim's algorithms on the following graph. [You can show final result in exam software and need not to show all intermediate steps].



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



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Write the pseudo code for Depth-first Search algorithm in Graphs with recursive version.

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



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