



TOTAL QUESTIONS: 52:

MCQs: 40:

Subjective paper is here:

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Q: 41: How can we generate maze. Give an algorithm.

MARKS: 2:

Q: 42: The relation " \geq " between real numbers is equivalence relation or not? Explain.

MARKS: 2:

Q: 43: What is meant by the following statement in context of linked list data structure?

`Node* new Node = new Node(9);`

MARKS: 2:

Q: 44: Give the names of any two $N\log(N)$ sorting algorithm.

MARKS: 2:

Q: 45: Give any three characteristics of Union by weight methode.

MARKS: 3:

Q: 46: "For smaller list linear insertion sort performs well, but for larger lists, quick sort"

is suitable to apply. Why?

MARKS: 3:

Q: 47: The relation "is a sibling of" (used to pairs of distinct people, who have the same

Parents) on the set of all human beings is equivalence relation or not? Explain.

MARKS: 3:

Q: 48: Write down the code for `isEmpty()` and `isFull()` functions of the stack data

structure implemented through arrays.

MARKS: 3:

Q: 49: Give an array of integers. Draw a maximum heap and show the final updates

array.

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12	57	19	87	15	44	23
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MARKS: 5:

Q: 50: Here is an array of 15 elements :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Suppose that we have Binary search tree for an element.

Indicate any element

will be found by examining two or few numbers from the array.

MARKS: 5:

Q: 51: If we use linked list implemented push and pop stack, What is the better side for

Push an element and also for Pop an element in to the array.

MARKS: 5:

Q: 52: *Forgeted.*

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